

For ChemQuik®, DrumQuik®, DrumQuik PRO & Other Common Colder Series Coupling Materials (Updated 01/10/2011)

		INTE	RPRETATION O	F TEST DATA (In 3	0 days to 1 year of exposure)
					_
	Swe	elling	Loss of Ter	nsile Strength	
	Linear	Volumetric			Description of Chemical Attack
	(Plastics)	(Elastomers)	(Plastics)	(Elastomers)	
Α	< 10%	<= 15%	< 15%	<=15%	Excellent, little or no swelling, softening or surface deterioration
В	< 15%	<= 30%	< 30%	<= 30%	Good chemical resistance, minor swelling, softening or deterioration
С	< 20%	<= 50%	< 50%	<= 60%	Limited chemical resistance, moderate attack, conditional service
NR	> 20%	> 50%	> 50%	> 60%	Severe attack, not recommended for use

WARNING:

The compatibility data in this guide was assembled from 3 main sources, a) the Chemical Resistance Guides published by VICTREX, the manufacturer of PEEK™ and c) the chemical manufacturers themselves. The table is to be used as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with its use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the couplings!

		NOTE: All temp	> 20% eratures are in de	> 50% egrees Fahrenhei	> 50% <u>t</u> . Conversion:	> 60% °C = (°F - 32)/1.8	Severe attack, not re	econimenaea for as	<u> </u>		J									J
CHEMICAL			SF	PRING Materi	ials					COUPLING	Materials						SEAL N	laterials		
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	Teflon® Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton®)	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone
Acetaldehyde (Acetic Aldehyde, Acetic Ethanol)	C2H4O (75-07-0)	A @ 100% to 140° AB @ 100% to 200°	A to 212°	A 40-100%	A 40-100%	A	AB to 40% to 140° BC @ 100% @ 70-130° NR @ 100% @ 140°	C 40-100% @ 70° C/NR 120-140° **(OK Fluorinated/TEST	AB to 40% NR 40-100% @ 70°+	A	A 40-100% to 70° AB to 180°	NR	NR 40-100% @ 70°	NR	B @ 40% 70-104° C @ 40% @ 140° HIFLUOR AB to 70°	A to 104° AB to 200°	(Chemraz White) NR (Simriz) AB (Kalrez 4079) A	NR	AB to 70°	AB to 70°
ACETAMIDE (N-Acetyl Cysteamine) (Ethanethiol)	C4H9NOS (1190-73-4)	A 100% to 70° A 98% to 135° A 50% to 200°	A to 140° C 100% @ 150°	A to 200°	A @ 50% to 70°	А	A to 125° AB to 150°	A to 122°	A to 75° AB to 200°	А	B @ 70°	NO DATA	NR	NR	B HIFLUOR AB to 70°	A to 140° AB to 200°	А	A to 70° AB to 180°	A to 70°	BC @ 70° NR @ 70° (Dynamic)
Acetic Acid (Glacial (99.8% Pure), Vinegar (4-18%)) (Ethanoic Acid)	C2H4O2 (64-19-7) (9035-69-2)	A to 212°	A to 212°	А	A	A (PTFE Encapsulated 316 Stainless St.)	A to 140° AB 50-100% to 160° AB to 80% to 180°	AB to 100% to 70° AB 60% to 180°	A to 122° A to 10% to 225° AB to 50%,150-200°	А	A to 5% to 70° BC 10% @ 70°	AB 10% to 70° C 20% @ 70° NR 50-100% @ 70°	A to 100% to 70° A to 20% to 140°	A to 50% to 70° B to 50% @ 122°	A 10% to 70° B 10-25% to 100° B 50% to 140°	A to 70° AB to 200°	A A to 70°	B to 30% at 70° B to 20% to 185° C at 80% at 70°	A to 30% to 70° C 50% @ 70°	A to 30% to 70°
Acetic Anhydride (Acetyl Oxide)	C4H6O3 (108-24-7)	А	A to 40% to 165° A 40-100% to 300°	A to 200°	А	A (PTFE Encapsulated 316 Stainless St.)	AB to 130° NR @ 140°	B/NR 100% 70-180° **(OK Fluorinated/TEST)	AB to 70° NR @ 122°	А	NR at 70°	B/NR @ 70° NR @ 122	NR at 70°	NR at 70°	B 50% to 70° NR 50% @ 100° NR 100% @ 70°	B to 200°	A	C at 100% at 70° NR 25-50% at 70°	A to 70°	C @ 70° NR @ 70° (Dynamic)
Acetone (Dimethyl Keytone)	CH3COCH3 (67-64-1)	A	A to 212°	A to 200°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 230°	C at 70° **(OK Fluorinated/TEST)	A to 10% to 122° AB 50% to 77°	А	A at 5% to 140° B at 70°	B 10% @ 70°	A to 20% to 70° NR at 100% at 70°	A to 70° NR 10-100% at 70°	NR HIFLUOR AB to 70°	A to 200°	A	125% vol 3 days 70 NR any conc at 70°	AB to 70°	C @ 70°
Acetonitrile (Methyl Cyanide)	CH3CN (75-05-8)	B @ 70°	A@100% to 100° NR 4% @ 192°	A to 200°	A to 70°	A (PTFE Encapsulated 316 Stainless St.)	AB to 75° NR @ 122°	A to 122°	A to 125° B @150° NR @ 180°	A	NR at 70°	NO DATA	NR at 70°	NR at 70°	NR HIFLUOR AB to 70°	A	A	C at 70°	NR	NO DATA
Acrylic Acid (Acrylic Polymer)	C3H4O2 (9063-87-0)	A 19%	A to 122° A 45% to 150° A 30% to 250°	NO DATA	A to 212°	A	A 100% to 70° AB 100% 100-250°	AB to 70° C @ 122: **(OK Fluorinated/TEST)	A 100% to 280°	A	NR	NR	B @ 70-122°	A tp 20% to 70° NR 100% @ 70°	NR Viton ETP "B"	NR	A 700	NR	NO DATA	NO DATA
Aluminum Sulfate (Aluminum Salt)	AI2012S3 (10043-01-3) NA	A to 165°	A to 50% to 212° AB 50-100%	A to 100% to boiling	A to 212°	A	A to 100% to 160° A to 10% to boiling AB 100% at 250°	A to 160°	A to 100% to 280° A 10% to boiling	A	A at 10% to 70° AB to 100% to 180°	A to 70° AB to 120°	A to 100% to 200° A to 10% to boiling	A to 100% to 200°	A to 100% to 176° A to 10% to boiling	A to 176° AB to 200°	A to 70°	A to 70° AB any conc to 180°	A to 70°	A to 70°
Amines (General) Ammonia	NA NH3	A to 85% to 160° AB to 200° A @ 100% to 140°	A to 40% to 165°	A to 70° A to 200°	A to 70°	A	AB to 120° A to 100% to 212°	NR **(OK Fluorinated/TEST) A to 140°		A A	NR at 70° NR at 70°	NO DATA B @ 70°	NO DATA C at 70°	NR at 70° NR at 70°	NR NR	AB to AC A to 140°	A (Black 550)	NR at 70° A to 104°	A to 70°	BC @ 70° BC 70-140°
(Anhydrous Liquid) Ammonia (Aqueous)	(7664-41-7) NH3	A to 100% to 70°	A 40-100% to 212° A to 100% to 70°	A to 30% to 70°	AB	(PTFE Encapsulated 316 Stainless St.)	A to 185°	BC to 30% to 120°	Α	Δ	A/NR 10-30% to 120°	B @ 70°	AB to 30% to 200°	NR 70-150°	HIFLUOR AB to 70° AB 30% to 70°	A 100% to 212°	AB (White 571 & 592)	B to 140° NR at 200° A at 38% to 200°	A to 70°	C @ 240°
(Ammonium Hydrate) (see also Ammonium Hydroxide) Ammonium Acetate	(7664-41-7) C2H7NO2	AB to 100% to 200°	AB to 212° A to 100% to 150°	A to 10% to 200°	A	(PTFE Encapsulated 316 Stainless St.) A	A to 102°	NR to 30% at 140° A to 122°	A to 100% to 175°	A	A to 70°	NO DATA	A sat'd to 122°	A sat'd to 122°	C 10% @ 104° HIFLUOR AB to 70° A to 140°	A to 140°	A	A to 140°	A to 70°	C @ 70° (Dynamic)
Ammonium Bifluoride	(631-61-8) F2H5N	A 10% to 70°	3/NR 6-10% @ 70-250) NR	A	A	AB to 180° A to 225°.	NO DATA	A	А	NR	A to 120°	NO DATA	NO DATA	B at 212° A to 100% to 140°	B at 212° A to 140↑	A	B at 176° AB to 140°	A to 100% to 70°	C @ 70° (Dynamic)
(Ammonium Hydrogen Fluoride) Ammonium Fluoride	(1341-49-7) NH4F	B 50-100% A to 25% to 175°	B45% C 35% @ 70° AB to 10% to 212°	NR	A	A	А	AC 25-100% to 120°	A	A°	NO DATA	NO DATA	NO DATA	NR at 70°	A to 140°	B 212° A to 140°	A	B 180-212° AB any conc to 104°	NO DATA	A to 70°
Ammonium Hydroxide	(12125-01-8) NH4OH	A 45% to 260° A to 47% to 70°	NR > 10% A to 100% to 70°	A to 200°	A to 212°	(PTFE Encapsulated 316 Stainless St.) A	A to 225°	A to 25% to 160° AB to 100% to 140°	A to 200°	А	AB to 100% to 140°	B @ 70°	A to 100% to 200°	BC 5% at 70°	A46% to 70°	A to 160°	A	A to 38% to 200°	A to 70°	A to 70°
(Ammonia, Aqeous) Ammonium Sulfate	(1336-21-6) (NH4)2SO4	A@100% to 150° AB@100% to 200° A to 10% to boiling	A@100% to 150° A to 37% to 221°	A to 200°	A	(PTFE Encapsulated 316 Stainless St.)	A 10% to 100°	A to 100% to 70°	A	A to 400°	B 100% 70-140°	A to 70°	A to 100% to 200°	NR 10-100% 70° NR 5% at 120° A to 100% to 200°	AB to 70° B 104-140° A to 70°	AB to 200° A to 120°	A	A/NR conc to 140° A any con to 200°	A to 70°	A to 70°
(Dolamin) Amyl Alcohol	(7783-20-2) C5H12O	A sat. to 130° AB sat. to 200° A to 200°	AB 38-80% to 150° A sat'd to boiling A to 200°	A to 200°	A to 70°	(PTFE Encapsulated 316 Stainless St.) A	A to 180°	AB to 100% 120-180° A to 70°	A to 250°	А	AB fertilizer to 70° AB to 5% to 70° A to 140°	AB @ 120° B @ 70°	A to sat'd to boiling A to 200°	NR 10-100%boiling AB to 70°	AB to 212°	A @ 100% to 200°	A	A to 100% to 140°	A @ 100% to 70°	NR
Aqua Regia (NitroHydrochloric Acid)	(71-41-0) HCL-HNO3 (8007-56-5)	NR (Titanium: A to 70°)	NR	NR	NR	A (PTFE Encapsulated	C at 70 - 104°	NR	A to 100° AB to 178°	A	NR at 70°	NR	NR at 70°	NR at 70°	B to 185°	AB to 300° NR at 140°	AB to 70° (Black 550)	AB to 100% to 180°		C/NR @ 70°
Benzene (Mineral Naphtha)	C6H6 (71-43-2)	(Tantalum: A) AB @100% to 140°	A to 20% to 217° AB 20-100% to 200°	A to 100°	A to 212°	316 Stainless St.) A to 500°	AB to 10% to 70° AB dilute to 140°	**(OK Fluorinated/TEST A at 10% to 70° C/NR at 100% at 70°	B a 212° A to 100% to 120° B at 100% at 120-140		A to 140°	NR	NR at 70°	NR at 70°	B to 158°	NR at 70°	A to 70°	NR at 70°	NR	NR at 70°
(Benzol) Benzene Sulfonic Acid	C18H30O3S (68584-22-5)	B to 212°	AB to 40% to 212° A 40-60% to 275° A 45-100% to 70°	A to 200°	A/NR @ 70°	А	AB to 100° AB to 10% to 180°	NR at 122° A to 120° A to 10% to 140°	3 at 100% at 140-158° A to 150°	A	C @ 70°	NO DATA	NR	NR	А	NR 10-100%@ 70°	A to 70°	NR 10-100%@ 70°	A to 70°	NR 10-100% @ 70°
Benzoic Acid (Carboxybenzene) (Benzymethonic acid)	C7H6O2 (65-85-0)	A to 100% to 70° AB to 100% 70-200° C 50% @ 212°	B to 100% to 212°	A to 200°	А	А	A to 140° AB to 180°	A to 180°	А	А	AB @ 70 C/NR @ 140°	B @ 70°	C 10-100% @ 70° NR 10-100% @ 200°	A @ 70° B 10-100% @120° NR 100% @ 200°	A to 70°	B/NR @ 70° NR @ 140°	A to 70°	NR	A to 70°	C/NR @ 70°
BOE (Buffered Oxide Etch) (30-50% Ammonuim Flouride, 0.5-10% HF)	N/A	A 45% to 260°	NR	NR	NR	A (PTFE Encapsulated 316 Stainless St.)	А	AC 25-100% to 120° **(OK Fluorinated/TEST)	А	Α°	NO DATA	NO DATA	NO DATA	NR	A to 140°	AB	А	AB any conc to 104	NO DATA	NR
Boric Acid (Orthoboric Acid, Hydrogen Orthoborate)	BH3O3 (10043-35-3)	А	A to 140° AB > 140°	A to 200°	A to 212°	A	А	A to 150°	A to 175°	А	A to 5% to 70°	A to 70°	A to 200↑	A to 125°	A to 185° B > 185°	A to 176° AB > 176°	A	A to 140° AB 140-200°	A to 70°	A to 70°
Butyl Acetate (N-Butyl Acetate)	C6H12O2 (123-86-4)	А	А	A to 200°	A to 70°	A to 500°	NR	AC at 70° BC at 120°	A to 70° AB at 80-100° C at 104-120°	A to 500°	AB to 70°	NO DATA	NR at 70°	NR at 70°	NR at 70° Viton ETP, "B" HIFLUOR A to 70°	B at 70°	А	NR at 70°	BC @ 70°	NR at 70°
Butyl Alcohol (N-Butanol)	C4H100 (71-36-3)	A	А	A to 200°	A to 70°	Α	AB to 100% to 180°	A to 150°	AB to 120° NR @ 150°	A	A to 70° AB to 140°	NR	A to 200 (No Stress) B @ 70° < 1 KSI	A to 200° (No Stress) AB to 70°	A to 70°	AB to 100°	A	A to 100% to 140° AB to 190°	B @ 70°	B @ 70° (Static) C @ 70° (Dynamic)
Butyric Acid (Butanoic Acid)	C4H8O2 (107-92-6)	A to 212°	A to 25% to 150° AB 25-100% to 200° B 5-25% 150-212°	A to 200°	A to 70°	A	A to 150°	C to 80° @ 70° C/NR 80-100% **(OK Fluorinated/TEST		A	B/NR 1-100% @ 70°	NR NO DATA	B @ 70-120°	NR	HIFLUOR A to 70°	C @ 70° (Dynamic) B to 140° (Static)	A to 70°	AB to 20% to 70° NR 30-100%	A to 70°	NR
Calcium Carbonate (Aglime)	CCaO3 (471-34-1)	B to 100% to Boiling	AB@100%	A to 150°	A to 70°	A to 500°	A to 135°	A to 160°	A to 258° AB to 285°	A to 500°	A to 10% to 150° AB to 180°	NO DATA	NO DATA	C at 70-150°	A to 248°	A to 140°	A to 70°	A to 200°	A to 70°	A to 100% to 70°
Caprylic Acid (Octanoic Acid)	C8H16O2 (124-07-2)	NO DATA	NO DATA	NO DATA	A	A	A to 125° BC @ 250°	BC @ 70 - 150° **(OK Fluorinated/TEST	A to 158° B/NR 175-285°	A	NO DATA	NO DATA	NO DATA	NO DATA	AB to 140°	NO DATA	A NO DATA	C @ 70°	NO DATA	NO DATA
Ceric Ammonium Nitrate	CeH8N8O18	NO DATA	NO DATA	NO DATA	А	А	NO DATA	NO DATA	NO DATA	А	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA



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		INIE	RPRETATION OF	FIESI DATA (In 3	30 days to 1 year of exposure)
	Swe	elling	Loss of Ter	nsile Strength	
	Linear	Volumetric			Description of Chemical Attack
	(Plastics)	(Elastomers)	(Plastics)	(Elastomers)	
Α	< 10%	<= 15%	< 15%	<=15%	Excellent, little or no swelling, softening or surface deterioration
В	< 15%	<= 30%	< 30%	<= 30%	Good chemical resistance, minor swelling, softening or deterioration
С	< 20%	<= 50%	< 50%	<= 60%	Limited chemical resistance, moderate attack, conditional service
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		NR NOTE: All temp	> 20% peratures are in de	> 50% egrees Fahrenhei	> 50% t. Conversion:	> 60% °C = (°F - 32)/1.8	Severe attack, not re	ecommended for us	е		_	couplings!								j
CHEMICAL				PRING Materi		, ,				COUPLING	Materials						SFAL M	aterials		
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	Teflon® Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton [®])	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone
(CAN)	(16774-21-3)																			
Chlorine (Anhydrous) (Dichlorine, Chlorinated water)	CL2 (7782-50-5)	A to 140° (to 10 ppm to 70°)	A to 70° (to 10 ppm to 70°)	NR	A to 10% to 70° NR Conc. @ 70°	A (PTFE Encapsulated 316 Stainless St.)	NR	A to 2% to 140° NR **(OK Fluorinated/TEST	A to 100% to 200° AB at 100% to 230° NR	A	NR at 10-100% at 70°	NR	NR at 70°	NR at 70°	C 400 ppm at 70°	B 400 ppm at 70° C 400 ppm at 104°	A to 70°	C sat'd at 70° NR 400 ppm at 70°	NR	NR at 70°
Chlorine Dioxide (Chlorine Peroxide) (CDG Solution 3000, 0.3% Sol., 3000 ppm) CLOROX	CLO2 10049-04-4	A to 70° AB 15% to 175° C 8-10% @ 150°	A 4-5% to 36° NR 10-100% @ 70°	A to 200° (13 months)	NR AB	A A	NR 15-100% @ 70° A to 120°	NR @ 70° **(OK Fluorinated/TEST A to 150°	A to 70° (Stressed) B to 120° (Stressed) NR with UV Present A	A	NO DATA A to 0.03% to 140°	B @ 70° BC @ 70°	NO DATA A to 200°	NO DATA A to 70°	AB to 8% @ 70° NR 15% @ 70° A 8% (HIFLUOR)	NR 8% @ 70° AB to 140°	A A	NR 8% @ 70°	NR @ 70° B @ 70°	C/NR @ 70° AB to 70°
(5.25% Sodium Hypochlorite)	CLNaO			BC @ 200° (1 yr) C @ 70 (1 yr)	AB	^	AB to 175° NR @ 212°	A to 130	A	^	NR 5%	DC & 70	A 10 200	A 10 70	A	AB 10 140	^	В	B @ 70	AB 10 70
Citric Acid	C6H8O7 (77-92-9)	A to boiling	A to 50% B@100% 70-212° NR 60-100% >125°	A to 220°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	А	A to 100% to 160° AB to 100% at 180°	A	А	AB at 15% at 140-150° B at 15-100% at 70° C at 100% at 140-150°	A 10% to 70° B 20% 2 70°	A to 100% to 150° A to 100% 10 70°	A to 100% to 70° B at 10-15% at 120° C at 15% at 150°	A	A	А	A to 200° B at 212°	A to 70°	A to 200°
Copper Sulfate (Cupric Sulfate)	CuO4S (7758-98-7)	A to boiling	A to 100% to 160° A to 45% to 180° A to 10% to 2121°	A to 223°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A	A to 50% to 150° AB at 50-100% to 180°	А	А	AB to 100% to 140°	A to 70°	A to 200°	A to 100% to 70°	A to conc. to 176° AB to 212°	A to conc. to 176° AB to 212°	A	A to conc to 176° AB any conc to 212°	A 5% to 70° A sol'n to 70°	A to 200°
Corn Oil	NA	А	A	A to 100°	A to 70°	A	A	A	A	A	AB	A to 70°	A	A	A	NR	A	A	A to 212°	A to 200°
Corn Syrup	NA	NO DATA	А	A to 100°	A to 70°	A	A	A to 150°	A	A	AB to 140°	AB to 70°	A	A	A	A	A	A	NO DATA	A to 200°
Cotton Seed Oil	NA OA WA COO	Α	A	A to 200°	Α	Α	Α	A to 140°	A	A	AB	NO DATA	Α	A	A	A	Α	A	AB to 70°	A to 200°
CRESOL (M, O & P)	C14H16O2	AB to 200°	AB 100° A 100% to 140°	A to 200°	A to 70°	A	NR	AB to 50% C/NR 50-100% @ 70° **(OK Fluorinated/TEST	A to 150°	A	NR 50 - 100%	NR	NO DATA	NR NR	A to 104°	NR	A	C/NR	NR	C/NR
Cyanide Solutions (Hydrogen Cyanide, Formonitrile) (Hydrocyanic acid solution, <20%)	CHN (74-90-8)	A 50% to 70° B 100% to 224° A 100% to 140°	A 10% to 70° B 10% @ 212° A 100% to 140°	NO DATA	A tio 212°	A 4- 500°	A to 180°	A to 150° AB to 180° NR	AD to 1228	A 4- 500°	NR	B @ 70°	B @ 70-200°	B @ 70°	A to 140°	A to 140°	A 70°	AB to 140°	AB 100% NR	AC @ 70° NR @ 120°
Cyclohexanone (Cyclohexyl ketone)	C6H100 (108-94-1) C16H22O4	A to 100° AB to 200°	A to 100 to 100° AB to 150°	A to 200° A to 200°	A to 70° A to 70°	A to 500°	AB to 70° B at 70-100° NR at 120° AB to 185°	**(OK Fluorinated/TEST BC @ 70-140°	AB to 122°	A to 500°	A to 70° AB to 140°	NR NR	NR at 70° AB to 185°	NR at 70°	NR at 70° HIFLUOR A to 70° BC 70-104° (static)	BC at 70°	AB at 70°	NR at 70°	nк В @ 70°	NR at 70°
Dibutyl Phthalate (DBP) Dichloroacetic Acid	(84-74-2) CL2CHCO2H		AB @ 100% to 480°					NR >140° **(OK Fluorinated/TEST	AB to 70° B @ 100° C @ 140°		A to 70° AB to 140°		NR @ 200°		NR (dynamic) A Viton ETP	AB (static) C (dynamic)	·			B @ 70 (static) C (dynamic)
(DCA)	(79-43-6)	NO DATA	NO DATA	NO DATA	A to 100° NR >100°	A (PTFE Encapsulated 316 Stainless St.)	AB to 100% to 125°	BC at 70° **(OK Fluorinated/TEST	AB to 50% to 212° AB 100% to 125°	A	NO DATA	NO DATA	NO DATA	NO DATA	HIFLUOR A to 70°	NR	A	NR NR	NO DATA	NR NR
Dichloromethane (Methylene Dichloride)	CH2CL2 (75-09-2) N/A		A to 70°	A 100% to 70° A/NR 40% @ 100°	NR	(PTFE Encapsulated 316 Stainless St.)	B/NR @ 70° C/NR @ 88-122°	**(OK Fluorinated/TEST	AB to 100° to 100° B 100% 104 - 125°	A A	A to 70°		NR at 70°	NR at 70°	B @ 70°	BC to 130° NR @ 140°	A	NR at 70°		
Diesel Fuel	C4H10O3	A to 140° AB to 200° B 100% @ 70°	A to 200°	A to 200°	A to 70° A 90% to 70°	A	AC @ 70° BC @ 120° A to 225°	A to 70° BC @ 140° A to 140°	AB to 125° A to 140°	A	A to 150° A 90 - 100% to 70°	NO DATA B @ 70°	A to 200° B @ 70-122°	A to 200-	A to 70°	NR	A	A to 70° AB to 250°	C/NR	NR B 70-200°
Diethylene Glycol (Ethylene Diglycol, Carbitol, Glycol Ether) Diethanolamine	(111-46-6) C4H11NO2	A	A	NO DATA	A to 120°	A	A 100% to 150°	AB to 70°	NR	A	NO DATA	NO DATA	A to 70°	NO DATA	NR	AB 70-160°	A	NR	A to 70°	C @ 70° (Dynamic)
(DEA, Diolamine)	(111-42-2) C6H14O	NO DATA	NO DATA	A to 70°	B @ 150° NR > 150°	Α	AB 100% to 225°	B/NR at 70°	A 100% to 100°	Α	A to 70°	NO DATA	NR	NR NR	HIFLUOR B to 70°	ND ND	,	B to 100% to 140°	C/NR @ 70°	NR
Diisopropylether (Isopropylether) Dimethyl Acetamide	(108-20-3) C4H9NO				·			NR at 140° **(OK Fluorinated/TEST)						NO DATA	NO DATA	NO DATA	NR @ 200°		
(DMAC) Dimethyl Sulfoxide	(127-19-5) C2H6OS	A	A	NO DATA A to 200°	A B @ 70-122°	A	AB to 125°F A to 125°	A to 122° A to 122°	NR NR	A	NO DATA	NO DATA	NR at 70°	NR at 70°	NO DATA	NO DATA A to 70°	NO DATA	NO DATA	NO DATA	AB to 70° C @ 70° (Dynamic) A to 70° (Static)
(DMSO) Dioctyl Phthalate	(67-68-5) C24H38O4	A to 100°	A @ 100% to 100°	A to 200°	В @ 70-122°	A	NR	C/NR @ 70°	AB to 70°	A	A to 70°	NO DATA	A @ 100% to 70°	NR	A for "F Type" HIFLUOR A to 70° NR	B 70-200° (static)	A	NR NR	NR	C @ 70° (Dynamic)
(DOP) Dipropylene Glycol	(82208-43-3) C6H14O3	NO DATA	AB to 480°	NO DATA	NO DATA	A	A to 125°	NR @ 120° **(OK Fluorinated/TEST A to 122°	BC @ 104° C @ 104 AB	A	A to 70°	NO DATA	B @ 70-122°	B @ 70°	HIFLUOR A to 70° A to 70°	C @ 70° (dynamic)	A	A to 70°	A to 70°	NO DATA
(Polypropylene Glycol) Dipropylene Glycol Methyl Ether	(78644-49-2) C7H16O3	NO DATA	NO DATA	NO DATA	NO DATA	A	AB to 150°	AB to 150° NO DATA	AB to 75°	A	NO DATA	NO DATA	NO DATA	C @ 122°	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
(DPGME) DI water	(83730-60-3)	A	3 @ 12 - 18.2 megaohi		A	A	AB 10 130	A to 140°	AB 10 73	A	NO DATA	A to 70°	A to 200°	NO DATA	A to 70°	A to 70°	A A	A to 70°	NO DATA	AB to 70°
(Deionized Water) (Ultra Pure Water, 17 megaohm +) Ethanolamine	C2H7NO	AB 100% to 200°	A @ < 12 megaohm A to 100% to 212°	A 100% to 200°	A to 120°	(PTFE Encapsulated 316 Stainless St.)	A 100% to 70°	AB @ 70°	NR	A	NO DATA	NO DATA	A to 200°	NO DATA	AB to 200°	AB to 200° A to 120°	A	AB to 200° B to 100% 70-80°	A to 70°	C @ 70° (Dynamic)
(ETA, 2-Aminoethanol) Ether	(9007-33-4)	A@100% to 200°	A@100% to 212°	A to 200°	B > 120 A to 212°	A to 500°	NR	B @ 122° NR at 100% at 140°	AB to 94°	A	A to 70°	NO DATA	NR at 70°	NR at 70°	HIFLUOR AB @ 70°	B to 200°	A	NR @ 120°	NR	NR @ 120° C @ 70° (Dynamic
(Ethyl Ether) (Diethyl Oxide) Ethyl Acetate	(60-29-7) C4H8O2	A to 56% to 171°	A A	A 100% to 100°	A to 70°	A 10 300	A to 180°	**(OK Fluorinated/TEST BC at 100% at 70°	B @ 104° NR @ 140° A to 70°	A	AB at 140° A to 10% to 200°	AC @ 70°	NR at 70°	NR at 85-100% at 70°	HIFLUOR A to 70°	A @ 100% to 130°	A	NR at 70°	NR	B @ 70°
(Acetic Ether) 2 Ethoxy Ethyl Acetate	(141-78-6) C6H12O3	A	A	A 10078 to 100	A to 70°	(PTFE Encapsulated 316 Stainless St.)	BC @ 70-120°	C at 100% at 70 C at 100% at 122° **(OK Fluorinated/TEST AB to 122°	B @ 100 - 122° NR @ 170° A	A	AB at 100% to 70° BC at 100% at 140° A to 70°	NO DATA	NR at 70	NR at 65-100% at 70	HIFLUOR A to 70°	D D	A	NR at 70	C/NR	NR @ 200° C @ 70° (Dynamic)
(Ethoxy Ethyl Acetate)	(111-15-9)	A	A	A	A 10 70	А	NR @ 140°	AD 10 122	А	А	A 10 /U	NO DATA	NK	IVIK	C/NR	В	А	NK	C/NR	NK



For ChemQuik®, DrumQuik®, DrumQuik PRO & Other Common Colder Series Coupling Materials (Updated 01/10/2011)

		INTE	RPRETATION O	F TEST DATA (In 3	30 days to 1 year of exposure)
	Sw	elling	Loss of Te	nsile Strength	7
	Linear	Volumetric			Description of Chemical Attack
	(Plastics)	(Elastomers)	(Plastics)	(Elastomers)	
Α	< 10%	<= 15%	< 15%	<=15%	Excellent, little or no swelling, softening or surface deterioration
В	< 15%	<= 30%	< 30%	<= 30%	Good chemical resistance, minor swelling, softening or deterioration
С	< 20%	<= 50%	< 50%	<= 60%	Limited chemical resistance, moderate attack, conditional service
ND	> 20%	> E0%	> E0%	> 60%	Sovere attack, not recommended for use

WARNING

the compatibility data in this guide was assembled from 3 main sources, a) the Chemical Resistance Guides published by VICTREX, the manufacturer of PEEK[™] and c) the chemical manufacturers themselves. The table is to be used as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with its use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the couplings!

		NR NOTE: All tomp	> 20%	> 50%	> 50%		Severe attack, not re	ecommended for us	se		_	couplings!]
		NUIE: All temp	eratures are in de	-	_	u = (°r - 32)/1.8														
CHEMICAL			SF	PRING Mater	ials					COUPLING	Materials						SEAL IV	laterials		
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	Teflon [®] Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton [®])	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone
Ethyl Alcohol (Ethanol/Grain Alcohol)) (Denatured Alcohol)	C2H5OH (64-17-5)	A to 100% to 212°	A to 100% to 200°	А	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 180°	A to 100% to 160°	A to 100% to 176° AB to 100% to 280°	A	A at 96-100% to 70° B at 100% at 120-180	AB to 70° (No stress)	NR at 100% at 200°		HIFLUOR AB to 70° A to 70°	A to 200°	A	A to 140° B to 185°	A to 70°	AB to 200° C @ 70 (Dynamic
Ethyl Benzene (Phynlethane)	C8H10 (110-41-4)	A to 240°	A to 100% to 70° AB to 100% to 70°	NO DATA	A 0.700	A	NR NR	BC @ 70-120° **(OK Fluorinated/TEST		A	A to 70°	NO DATA	NR	NR O ZOO	A	NR	A	NR	C @ 70°	NR
Ethyl Lactate (Acytol, Lactic Acid Ethyl Ester) Ethylene Glycol	C5H10O3 (97-64-3) HOCH2-CH2OH	A 20-100%	B A 40-100% to 200°	A to 200°	A @ 70° A to 212°	A	A to 122°	A to 122° A to 160°	NR A	A	NO DATA A to 100% to 120°	NO DATA A to 70°	C @ 70-122° A to 100% to 200°	C @ 70° NR @ 122° A to 160°	BC Viton ETP, A to 70° HIFLUOR A to 70° A to 250°	A to 70 A to 212°	A	BC @ 70° A to 212°	NO DATA	AB to 70°
(Glycol Alcohol) (Prestone®) Ethylene Glycol Mono Butyl Ether	(107-21-1) C6h14O2	A to 200°	A 100% A to 200°	A to 200°	A 10 212	(PTFE Encapsulated 316 Stainless St.)	AB to 140°	B/NR@70°	A to 104°	A	AB to 140° B at 180° AB to 70°	B @ 140°	A to 70°	B to 200°	NR	A to 200°	A	C 70 - 150°	A to 70°	NR
(Butyl Cellosolve) Ethylene Oxide	(111-76-2) C2H4O	A to 70°	AB to 200°	NR	A	A	C @ 70-120°	**(OK Fluorinated/TEST BC @ 70°	NR @ 212°	A	A to 70°	NR NR	BC @ 120°	C @ 70°	HIFLUOR A to 70°	B @ 12% @ 70°	A	NR	A to 70°	NR
(EO, EtO, Oxiraine) Ferric Sulfate	(75-21-8) Fe2O12S3	A to 100% to 140°	A to 10% to 212°	A	A	A	NR @ 140°	A to 100% to 150°	AB 100% 122-140°	A	B to 180°	A to 70°	A to 100% to 200°	NR @ 125°	A to 176°	C/NR @ 70° A to 176°	A	A to 140°	A to 70°	AB to 160°
(Sulfuric Acid) Formaldehyde	(10028-22-5) CH2O	A to 20%	A 20-100% to 140°	A to 100% to 70°	A	А	A	A to 80°	A to 100% to 104°	А	A to 70°	AB @ 120° A to 40% to 70°	AB to 100% to 70°	A to 100°	B @ 212° A to 176°	AB to 200° A to 120°	A to 104°	AB to 200° A to 40% to 140°	AB to 70°	B 40-100% @ 70
(Formalin) Formic Acid	(500-00-0) CH2O2	B 20-100% to 200° A to 100% to 200°	A to 5%	NR 37%@200° A to 100% to 70°	AB to 10% to 70°	A	A to 100% to 70°	B @ 150° A to 100% to 104°	A to 37% AB 40-100% @ 140° A to 100% to 212°	A	AB to 40% 140-180° NR at 3-100% at 70°	AB 40% @ 120° A to 10% to 70°	A to 10% to 70°	AB to 100% @ 120° A to 50% to 70°	A to 37% to 212° AB to 50% to 104°	A to 200°	В	B @ 40% @ 212° B to 50% at 70°	A to 70°	C @ 70 (Dynamic
(Formylic Acid) FREON's (General)	(64-18-6) CH2FCF3 (R134a) (811-97-2)	A	AB 5 - 80% to 212° B 80 - 100% to 212° A	A to 40% to 200° NR @ 37% @ 150° A to 70°	BC 100% @ 70° A to 70°	(PTFE Encapsulated 316 Stainless St.) A	A to 40% to 104° C 100% @ 140° AB (Wet) C/NR (Dry)	B at 50-100% at 140-15 BC at 100% at 180° A/NR @ 70° A to 80° (R12)	A to 212°	А	AB to 140° (Celcon)	NR @ 70°	at 10-50% at 70-120 C 98-100% at 70-120 NR		NR 60-100% @ 70° (HIFLUOR A to 70°) NR	A to 90% to 212° AB (R12) A to 140° (R22)	A to 70°	NR 50-100% at 70° NR at 100% at 140° C @ 70° (R12 Wet) NR (R22)	NR	C @ 120°
Gasoline (Petrol)	NA	A	A to 200°	A to 176°	A to 212°	A to 500°	NR at 70°	A to 70° (R22) NR	A to 275° AB to 285°	A to 500°	A to 70°	NR	A to 70°	C at 70°	(HIFLUOR A to 70°) A to 190°	A to 70° (R134a) NR at 70°	A to 70°	A to 70° (R134a) A/NR (Test for additives	C/NR	NR at 70°
Glycerin (Glycerol)	C3H8O3 (56-81-5)	A to 100% to 212° A @ 100% to 600°	A to 100% to 200° A@100% to 300°	A to 200°	A to 100% to 70°	A to 450°	A to 100% to 225°	**(OK Fluorinated/TEST A to 160° A to 150°	A to 100% to 275° AB at 100% at 285°	A to 450°	A to 140°	AB @ 70-140°	A at 100% to 200°	A to 125°	A to 250°	A to 176° AB to 200°	A to 70°	effect! FKM better) A to 250°	A to 70°	A to 70°
Glycol (polysorbate 80) (Polyoxyethylene Sorbitan Monooleate)	C32H60O10 (9005-65-6)	A 20-100%	A @ 100% to 70°	A to 200°	A to 212°	А	А	AB to 180° A to 150°	A	А	A to 120° AB to 140°	A to 70° B @ 140°	A to 200°	A to 160°	A to 70° AB to 400°	A to 70° AB to 300°	A to 70°	A to 70° A to 220°	AB to 70°	A to 70°
Glycolic Acid (Hydroxyacetic Acid)	C2H4O3 (79-14-1)	A	A to 225°	A to 200°	A to 212°	А	A to 100% to 180°	AB to 150°	A to 100% to 100° A to 65% to 212° NR 100% @ 176°	А	A to 70°	B @ 70°	NO DATA	NO DATA	A 10% to 140% HIFLUOR A to 70°	A to 70°	A	A to 100% @ 70° A to 70% to 140° NR @ 70° (dynamic)	A to 70°	AB to 70° C @ 70 (Dynamic
Hexane (Dipropyl) (N-Hexane)	C6H14 (110-54-3)	А	A @ 100% to 200°	A to 200°	A to 70°	A (PTFE Encapsulated 316 Stainless St.)	BC @ 70-104° C @ 120-140° NR @ 140°	NR **(OK Fluorinated/TEST	A A	А	A to 70°	NR	A at 100% to 200°	A to 158° NR at 80-120°	A to 200°	NR	А	A to 70°	AC @ 70°	NR
HMDS (1,1,1,3,3,3-Hexamethyldisilazane) Bis(trimethylsilyl)amine	C6H19NSi2 (999-97-3)	NO DATA	NO DATA	NO DATA	NO DATA	A (PTFE Encapsulated 316 Stainless St.)	NO DATA	NO DATA	NO DATA	А	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	А	NO DATA	NO DATA	А
Honey	NA	A to 70°	A to 140°	NO DATA	A		A to 70° AB @ 180°	A to 140°	A	A	A to 70°	B @ 70°	NO DATA	A to 70°	A to 140°	A to 140°	NO DATA	A to 140°	A to 70°	A to 70°
Hydrazine (Diamine)	H4N2 (302-01-2) HBr	A to 70° A@50% to 80°	A to 140°	NO DATA	A NR	A	NR 35-100% @ 70°	A to 70°	A dilute to 350°	A	B @ 70°	NO DATA	NR	NR at 20 100% at 70°	A Aqueous to 70° NR HIFLUOR A to 70°	A to 100% @ 70°	B A 64% to 70°	AB 24% @ 70° BC 64 - 1005 @ 70% B Anhydrouse NR	A to 70°	B to 100% 70 -20
Hydrobromic Acid (Hydrogen Bromide) Hydrochloric Acid	(10035-10-6)	A@50% to 80° A@100% to 140° AB to 20% to 70° A to 40% to 140°	NR 3-100%	A to 37% to 100° A to 70° A to 10% to 200°	A to 212°	(PTFE Encapsulated 316 Stainless St.)	A 20% to 225° A to 50% to 150° B Conc. to 185° A to 100% to 70°	A to 20% to 160° A to 50% to 140° AB 50-100% at 70-150 A to 100% to 140°	A dilute to 250° A to 37% to 70° A 38-100 to 275° A to 38% to 194°	A	A to 10% to 70°	NR 20% @ 70° AB 10-50% to 70°	B at 30% at 70° A to 100% to 70°	NR at 30-100% at 70° A to 10% to 200°	A to 140° A to 100% to 70°	A to 200° A to 25% to 140°	A	AB 20-37% to 70°	B 30-100% @ 70° A to 70°	NR 20-100% @ 7 AB to 20% to 12
(Muriatic Acid) Hydrofluoric Acid	(7647-01-0) HF	NR 5-100% 175° A to 100% to 70°	A to 10%	C/NR 37-100%@70° A to 50% to 140°	NR 4-100%@70°	(PTFE Encapsulated 316 Stainless St.)	A to 36% to 150° A to 10% to 185° A to 50% to 140°	A to 40% to 160° AB to 40% to 150° A to 60% to 140°	A to 50% to 175° AB 40-70% to 70° A to 100% to 212°	A		BC 50-100% @ 70° NR 50-100% @ 150°	A to 50% to 140°	AB at 20% at 70-200° A to 10% to 180°	A to 37% to 160° A to 60% to 130°			AB to 15% to 150° AB 10% to 70°	AB to 37% to 150° C 37% @ 150° C 20-25% @ 70°	C @ 37% @ 150 BC 50% @ 70°
(Hydrogen Fluoride) (HF) Hydrogen Peroxide	(7664-39-3) H2O2	A@90% to 125° A to 100% to 75°	AB@16% to 120° NR 45-80% A to 30% to 104°	A to 35% to 200° NR > 50% A to 10 to 200°	A to 212°	(PTFE Encapsulated 316 Stainless St.) A	A to 40% to 200° A to 30% to 225° A to 80% to 70°	A to 40% to 180° A to 30% to 160° A to 30% to 140°	A to 200°	A	NR at 4-100% at 70°	A to 10% to 70°	AB 25-38% at 70-200 A to 100% to 70°		A to 50% to 176 A to 30% to 212° A to 104°	AB to 60% to 130° AB to 65% to 70° B 5% to 140°	A (White 571 & 592)	C 20-30% to 130° B 3% at 70°	NR 50-100% @ 70° A to 100% to 70°	A to 90% to 70°
(Hydrogen Dioxide) Hydroquinone	(7722-84-1) C6H6O2	A to 50% to 200° B @ 70°	A 50-100% to 70° AB to 100% to 70°	AB to 30% to 100° NR 50-100% @ 70° NO DATA	Α	(PTFE Encapsulated 316 Stainless St.) A	A to 5% to 170° NR 30% > 125° A to 180°	AB at 30-90% to 120° AB at 30-100% to 70° A to 140°	A to 30% to 212°	A	A to 70°	NR 100% @ 70°	A to 90% to 120° B at 30% at 180° NO DATA	NO DATA	A 50% to 200° AB @ 100% @ 160° B	B 3-30% @ 70° B/NR 70-140°	AB (Black 550) AB	BC 10% to 80°	A to 70°	B @ 100% @ 70 B @ 70°
Hydroxyacetic Acid	(8027-09-2) C2H4O3 (79-14-1)	А	A 5% to 120° A to 225°	A to 200°	(Low concentration) A to 212°	А	A to 100% to 180°	AB to 150°	A to 100% to 100°	A	A to 70°	B @ 70°	NO DATA	NO DATA	A 10% to 140%	A to 70°	A	A to 100% @ 70° A to 70% to 140°	A to 70°	AB to 70°
(Glycolic Acid) Iodine	12 (7553-56-2)	A	A 9-10% to 72° NR >10%	NR	BC @ 70°	A (PTFE Encapsulated	A to 100% @ 75° AB to 100% @ 176°	A to 6.5% to 70°	A to 65% to 212° NR 100% @ 176° A to 100% to 170° C 100% @ 212	A	A to 70° C/NR at 100% at 70°	NO DATA	NR	NR	A (HIFLUOR) A to 100% to 140°	AB to 160°	A	NR @ 70° (dynamic) A 6.5% to 70° B to 140°	A to 70°	C @ 70 (dynamic B (solutions @ 70 C/NR @ 70°
Isopropyl Acetate	C5H10O2 (108-21-4)	B @ 70°	A to 100% to 175°	NO DATA	A	316 Stainless St.)	AB to 100% @ 176° C @ 125°	A to 70°	A to 280°	А	A/NR @ 70°	NR @ 70°	C/NR @ 70°	NR	NR	AB to 160°	A	NR	B @ 70°	NR
Isopropyl Alcohol (IPA)	(CH3)2CH-OH (67-63-0)	A@100% to 212° A@47% to 356°	A to 100% to 140° A@100% to 212°	A to 200°	A to 75°	A (PTFE Encapsulated	A to 225°	A to 160°	A to 150° AB to158°	A	A to 70°	A to 70° (No stress)	A to 122° AB at 185°	A to 125°	HIFLUOR A to 70° A to 170° B @212°	A to 160° B @176°	А	A to 70° B any conc to 130°	A to 70°	A to 160°
(Isopropanol, 2-Propanol) KEROSENE	NA	A@11% to 70° A	A	AB to 200°	A to 70°	316 Stainless St.) A	AB to 80° BC @ 122° NR @ 140°	C/NR @ 70° NR @ 100° **(OK Fluorinated/TEST	A	А	A to 180°	BC @ 70°	AB to 200°	A to 70° AC @ 122°	A to 158°	NR	А	A	NR	NR



For ChemQuik®, DrumQuik®, DrumQuik PRO & Other Common Colder Series Coupling Materials (Updated 01/10/2011)

		INTER	RPRETATION O	F TEST DATA (In 3	0 days to 1 year of exposure)
	Swe	ellina	Loss of Te	nsile Strenath	٦
	Linear	Volumetric			Description of Chemical Attack
	(Plastics)	(Elastomers)	(Plastics)	(Elastomers)	
Α	< 10%	<= 15%	< 15%	<=15%	Excellent, little or no swelling, softening or surface deterioration
В	< 15%	<= 30%	< 30%	<= 30%	Good chemical resistance, minor swelling, softening or deterioration
С	< 20%	<= 50%	< 50%	<= 60%	Limited chemical resistance, moderate attack, conditional service
ND	> 20%	> E09/	> E0%	> 60%	Sovere attack not recommended for use

WARNING

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		NR NOTE: All tomp	> 20%	> 50%	> 50%	> 60%	Severe attack, not re	ecommended for us	e			couplings!]
		NOTE: All temp	eratures are in de	egrees Fanrenne	it. Conversion: *	C = (°F - 32)/1.8														
CHEMICAL			SF	PRING Mater	ials			1	ı	COUPLING	Materials	•	ı			1	SEAL M	Materials		
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	Teflon [®] Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton [®])	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone
KEYTONES (MEK, 2-Heptanone, etc.)	NA	A to 200°	А	А	A to 212°	А	AB to 80°	B @ 70° **(OK Fluorinated/TEST)	NR	А	AB to 120°	NR	NR	NR	NR	A to 200°	А	A to 200°	NR	NR
LACTIC ACID	C3H6O3 (50-21-5)	A to 85% to 125° B 65-100% to 212°	A to 75% to 120° A @ 100% to 120° B 25 75% 125-212°	А	А	А	A to 100% to 150°	A to 140°	A to 100% to 100° B 100% @ 120° AB to 80%	Α	AC to 100% fr 70-140	NR NR	A to 100% to 200° A to 60% to 300°	A to 100% to 70° AB to 100% @ 122-200°	A to 100% to 140° A to 80% to 176°	A to 100% to 140° A to 80% to 176°	A	A to 100% to 70° B 25-80%@104° C 25-80%@104°	A to 70°	A to 70° B 140 - 200°
LIMONENE (D-Limonene / DL-Limonene) (Orange Oil)	C10H16 (138-86-3) (59-8927-5)	A to 70°	A to 140°	NO DATA	А	А	B @ 70° C @ 122°	B @ 70° C @ 122° **(OK Fluorinated/TEST	A to 260°	A to 122°	NR @ 70°	NO DATA	C @ 70 - 122°	C @ 70 - 122°	A to 140°	NO DATA	NO DATA	A to 140°	C @ 70°	NR @ 70°
METHANESULFONIC ACID (MSA) (Alkane Sulfonic Acid)	CH4O3S (75-75-2)	NO DATA	NO DATA	NO DATA	NR	А	A to 125° NR @ 140°	NR @ 70° **(OK Fluorinated/TEST	A to 200°	А	NO DATA	NO DATA	NO DATA	NO DATA	A to 70°	NR	А	A to 70°	NO DATA	AB to 70° (station C (dynamic)
METHOXYBUTANOL (3-Methoxy-1-Butanol)	C5H12O2 (2517-43-3)	NO DATA	NO DATA	NO DATA	A	А	NO DATA	NO DATA	NO DATA	А	NO DATA	NO DATA	NO DATA	NO DATA	A to 70°	AB @ 70°	А	A to 70°	NO DATA	NO DATA
METHOXYETHANOL (Ethylene Glycol Monomethyl Ether)	C3H8O2 (109-86-4)	NO DATA	NO DATA	NO DATA	A	А	A to 122°	A to 122°	A to 122°	А	NO DATA	NO DATA	NR	NR	BC @ 70° NR (Dynamic) HIFLUOR A to 70°	A to 70°	А	BC @ 70° NR (Dynamic)	NO DATA	AB to 70° C @ 70° (Dynam
Methylacrylic Acid (Methacrylic Acid)	C4H6O2 (79-41-4)	A to 131°	A to 194° (liquid) A to 131° (vapor)	NO DATA	NO DATA	А	NO DATA	NO DATA	A to 125°	А	NO DATA	NO DATA	NO DATA	NO DATA	NR Viton ETP "A" HIFLUOR A to 70°	B @ 70°	А	NR	NO DATA	NR
Methyl Alcohol (Methanol) (Wood Alcohol)	CH3OH (67-56-1)	A to 212°	А	A to 150°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 70° BC 100 @ 180°	A to 100% to 122° AB at 100% at 140° B/NR at 100% at 150-180	A to 148° AB 212-257°	А	A to 140° B at 180°	NR	A at 100% to 70° C at 100% at 120° NR at 100% at 200°	AB at 50% to 70° B at 70° C at 122°	NR HIFLUOR A to 70°	A to 160° AB to 176°	А	A to 70° AB any conc to 150°	A to 70°	A to 100% to 70 A @ 100% to 15
Methylene Chloride	CH2CL2 (75-09-2)	А	A to 100% to 200° A to 90% to 212°	A 100% to 70°	A to 70°	A (PTFE Encapsulated 316 Stainless St.)	NR	NR **(OK Fluorinated/TEST	AB to 100°	А	A to 70°	NR	NR at 100% at 70°	NR at 70°	B @ 70°	BC to 130°	А	NR at 70°	NR @ 70°	NR
Methyl Ethyl Ketone (MEK)	C4H8O (78-93-3)	A to 200°	A to 200°	A to 100% to 70°	A to 212°	A to 500°	A to 100% to 70° AB at 100% at 125° AB at 100% at 122°	BNR @ 70-`122° **(OK Fluorinated/TEST	NR	A to 500°	A to 70° AB at 70-180°	NR	NR at 40-100% at 70	0° NR at 100% at 70°	NR at 70° HIFLUOR AB to 70°	A to 140° AB to 240°	A to 70°	NR any conc at 70°	BC @ 70°	NR
MINNCARE® Cold Sterilant (Hydr. Peroxide (24%), Peracetic acid (6%), Acetic acid (10%))	H2O2 C2H4O3 C2H4O2	А	A	AB	A	А	А	AC (Embrittles over time) **(OK Fluorinated/TEST	AB	А	NR	В	A	А	В	В	А	В	А	NR
Mineral Oil (Baby Oil, Petrolatum)	NA (8012-59-1)	A to 200°	A	А	A to 70°	А	A to 100% B @ 104° C @ 120-140°	C @ 70° **(OK Fluorinated/TEST)	A	А	A to 140°	AB to 70°	AB to 70°	A to 70°	A to 70°	NR	А	А	B/NR @ 70°	B @ 70° C @ 70° (Dynam
Mineral Spirits (Petroleum Distillates, Dispersol) (Stoddard Solvent, Paint Thinner)	NA (8052-41-3) (64742-47-8)	B @ 70°	A	A to 70°	А	А	NR	C @ 70° **(OK Fluorinated/TEST	Α	А	A to 70°	A/NR @ 70°	NR	B/NR @ 70°	А	NR	A	А	AB to 70°	NR
Monoethanolamine (Aminoethanol, MEA)	C2H7NO (9007-33-4)	Α	A	A 100% to 200°	A to 110° B < 110°	A	A 100% to 70° BC 100% 70-180°	AB to 70° B @ 122° **(OK Fluorinated/TEST	NR)	A	NR	NO DATA	A to 200°	NR	NR	B @ 70-80° NR 100 @ 120°	A	A to 120° C @ 70° (dynamic)	A to 70°	B @ 70° NR @ 120°
Motor Oil	N/A NMP	A to 70°	A to 140°	A to 200°	A	A	A 100% to 70° C @ 120° NR @ 140°	B/NR @ 70° **(OK Fluorinated/TEST	Α	A	A to 160°	B @ 70°	A to 200°	A to 200°	A to 190°	NR	A	A to 190°	AB to 70°	AB to 70° C @ 70° (Dynam
N-Methyl 2-Pyrrolidone (NMP)	CH3N(CH2)3CO (872-50-4)	Α	A 1000/	A to 70°	A	A (PTFE Encapsulated 316 Stainless St.)	A	A	C/NR @70°	Α	NO DATA	NO DATA	NR at 70°	NO DATA	AB @ 70° HIFLUOR A to 70°	A to 70°	A	NO DATA	NO DATA	NO DATA
Naptha (Coal Tar)	(8030-30-6)	A to 140° AB to 200°	A 100% A 96% to 170° A 60% to 70° A 100%	A	Α	Α	A to 140° C @ 180°	NR **(OK Fluorinated/TEST	Α	A	A to 70°	NR B/NR @ 70°	B @ 70° AB to 140°	NO DATA	A	NR NR	A	AB to 250° AB to 250°	C/NR @ 70°	NR NR
Naptha (Heavy Aromatic Naptha Solvent) (Hans Solvent, Aromatic 100, Solvent Naptha) Napthalene	(64742-94-5) (64742-95-6) C10H8	A to 140° AB to 200° A to 130°	A 100% A 96% to 170° A 60% to 70°	A	A	A	AB @ 70 - 150° C/NR @ 150 - 180° B @ 70°	BC @ 70° B/NR @ 120° **(OK Fluorinated/TEST B @ 70° (short duration)	,	A	A to 70°	NR	AB to 140°	A to 70°	A to 176°	NR NR	A	NR	BC @ 70°	NR NR
(Coal Tar Distillate) Nitric Acid	(91-20-3) HNO3	B @ 180° A to 99% to 130°	A to 100% to 120°		A to 30% to 70°	A	BC @ 70-140° NR @ 170° A to 50% to 104°	NR @ 70° (1 year) **(OK Fluorinated/TEST A to 30% to 140°	A to 98% to 70°	A	AB @ 140°	B 5-20% @ 70°	A to 5% to 140°	A to 20% to 70°	A 50% to 140°	A to 25% to 70°	A	NR 0-100% at 70°	A to 10% to 70°	B Dilute @ 70°
(Hydrogen Nitrate) OIL, Corn	(7697-37-2) NA	A to 50% to 140° AB@10% to 185° A to 70°	A to 100% to 120 A to 60% to 175° A to 50% to boiling	AB to 40% to 80°	A to 10% to 212° NR 50% @ 70° A to 140↑	(PTFE Encapsulated 316 Stainless St.) A to 140°	A to 30% to 104 A to 30% to 180° A to 10% to 210° B/NR to 104°	A to 30% to 140 AB at 50% to 70° BC 50-70% @70° AB to 70°	A to 90% to 140° A to 30% to 212° A	A	AB to 70°	NR @ 50% A to 70°	A to 40% to 70° B at 10% at 140° A to 70°	At to 20% to 70 AB at 20-50% to 70° B to 10% at 120° A to 150°	A 90-100% to 158° AC 60-70% to 70° A to 140°	A to 10% to 104°		AB any conc to 150°	B 20% @ 70° C 50-70% @ 70°	NR @ 70° (Fumir
OILS/LUBRICANTS, General	NA NA	A 10 70	A	AB to 70°	AB to 70° (SEA)	A to 70°	NR	AB 10 70	A	A	A to 158°	B @ 70°	A 10 70	A to 70°	A to 158°	NR	A	A A	NR	NR
OIL, Mineral	NA NA			AB to 70° NR @ 120° A to 100°	NR (Crude & Diester)															
OIL, Minerai	NA NA	A to 70°	A to 150°	A to 100° C/NR @ 140-160 A 100% to 176°	C @ 70° NR @ 100° AB to 70°	A	A to 100° C/NR @ 140°	A to 150°	A	A	A to 150°	A to 70°	A to 200° A to 73°	A to 70° B @ 120°-200°	A to 70° A to 176°	NR	A to 70°	A	B/NR @ 70°	B @ 70°
		A to 70°	A			A	B @ 70°	A to 70°	A	A	A to 150°	A to 70°	A to /3*	A to 150°		B @ 70°	A to 70°	A to 200°	B @ 70°	C @ 70° NR @ 250°
OIL, Vegetable Oxalic Acid	NA C2H2O4	A to 100% to 140°	A A to 50% to 100°	A to 140° AB @ 160°	AC @ 70°	A	AC A to 100% to 140°	A to 100% to 160°	A to 100% to 125°	A	C at 5% at 70-150°	C @ 70° A to 70°	A to 100% to 70°	A to 10% to 70°	A to 200° A to 100% to 140°	AC to 200°	A	A to 200° AB to 100% to 140°	BC @ 70° A to 70°	AB to 70° B @ 200° B 70-250°
OXAIIC ACIG (Ethanedioic Acid) Ozone	(144-62-7) O3	A to 50% to Boil B 60-100% to Boil	A 20-50 to 125° B 60-90% @ 70°	NO DATA		(PTFE Encapsulated 316 Stainless St.)	A to 100% to 140° A to 50% to 180° NR	At 0 100% to 160° AB to 100% to 180° NR at 100% at 212° AB weak conc. At 70°	A to 60% to 212° B @ 100% @ 158°		C at 10% at 70°		AB at 5% to 180°		A to 50% to 176°		A (White 571 & 592)	NR 10% boiling	A to 70°	C @ 70° (Dynam
(trioxygen)	(10028-15-6) NA	A@2% to 140°	A to 70° A@2% to 140°		A to 212°	A (PTFE Encapsulated 316 Stainless St.)		C sat'd in H2O at 70° NR at 2-100% at 105°	A to 260°	A	NR	B @ 70°	A to 122°	NR 1-100% at 70°	A to sat. to 70° NR sat @ 140°	A to sat. to 70° NR sat. @ 140 NR sat. @ 140	AB (Black 550)			A P to 250°
Paraffin		A NO DATA	A	A to 70°	A to 212°	A	A to 140°	C/NR @ 70° **(OK Fluorinated/TEST)		A	A to 70°	AB	NO DATA	A to 70°	A to 400°		A to 70°	A to 250°	A to 70°	B to 250° C @ 70° (Emulsio
Pelargonic Acid	C9H18O2	NO DATA	AB	AB	A	Α	AB to 100°	AB	AB to 100°	Α	NO DATA	NO DATA	NO DATA	NO DATA	B to 70°	NO DATA	A to 70°	A to 70°	NO DATA	NO DATA



For ChemQuik[®], DrumQuik[®], DrumQuik PRO & Other Common Colder Series Coupling Materials (Updated 01/10/2011)

		INTE	RPRETATION O	F TEST DATA (In 3	30 days to 1 year of exposure)
					_
	Swe	elling	Loss of Ter	nsile Strength	
	Linear	Volumetric			Description of Chemical Attack
	(Plastics)	(Elastomers)	(Plastics)	(Elastomers)	
Α	< 10%	<= 15%	< 15%	<=15%	Excellent, little or no swelling, softening or surface deterioration
В	< 15%	<= 30%	< 30%	<= 30%	Good chemical resistance, minor swelling, softening or deterioration
С	< 20%	<= 50%	< 50%	<= 60%	Limited chemical resistance, moderate attack, conditional service
NR	> 20%	> 50%	> 50%	> 60%	Severe attack, not recommended for use

WARNING

The compatibility data in this guide was assembled from 3 main sources, a) the Chemical Resistance Guides published by COMPASS PUBLICATIONS ©, b) the Chemical Resistance guide published by VICTREX, the manufacturer of PEEK™ and c) the chemical manufacturers themselves. The table is to be used as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with its use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the couplings!

		NR NOTE: All temp	> 20% eratures are in de	> 50%	> 50%		Severe attack, not re	ecommended for us	e			couplings!]
CHEMICAL		NOTE: MI TEMP				0 = (1 - 52), 1.5				COURLING	Matariala						CEAL N	latariala		
CHEMICAL Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PRING Mater PPS	PEEK™	Teflon [®] Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton [®])	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	laterials Buna	TPO (Santoprene)	Silicone
(Nonanoic Acid)	(112-05-0)														Viton ETP A to 70° HI FLOUR A to 70°					
Peracetic Acid (Peroxyacetic Acid, POAA)	C2H4O3 (79-21-0)	A	А	А	А	А	AC 40% @ 70°	AC/NR (Embrittles over time) **(OK Fluorinated/TEST	AB to 40% to 70°	А	NR	NO DATA	NO DATA	NR	A to 1% @ 70° C @ 100% @ 70° HIFLUOR A to 70°	A 1 & 100% @ 70° B 10% @ 70°	A to 70°	C 100% @ 70° NR 1-10% @ 70°	NO DATA	B 100% @ 70° NR 1-10% @ 70°
Phenol (Carbolic Acid)	C6H6O (108-95-2)	А	А	A to 100° C @ 100% @ 200°	A Dilute to 70° NR 75-100% @ 70° Dissolves @ 75%	А	A to 104° AB to 130°	A to 5% to 70° AB 70-85% @ 70° NR 90-100% @ 70°	A to 100% to 158°	А	NR	NR	A to 5% to 70° NR 100% @ 70°	A to 5% @ 70°	A to 140°	NR 5 - 100%	А	NR	A/NR @ 70°	NR
Phosphoric Acid	H3PO4 (7664-38-2)	A to 200° A to 50% to boiling	A to 40% to 240° A to 70% to 150°	А	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 185° A to 75% to 225°	A to 100% to 140° A to 75% to 160° AB to 90% at 160-180°	A A 85% to 230°	A	C at 0.3-10% at 70° NR at 10-100% at 70°	AB to 40% to 70° B 40% @ 70° C 50-100% @ 70°	A to 100% to 200° A to 85% to 250° NR at 85% at 300°	A to 100% to 70° A to 25% to 158° B at 85% at 120°	A to 140° A to 85% to 176° A 75% to 212°	A to 130° A to 85% to 176° B to 30% to 212°	А	A to 10% to 104° AB to 50% to 104° AB 30% to 104°	A to 45% @ 70° B 45 @ 70↑8 C 50-100% @ 70	NR
Phosphorous Trichloride (PICI)	CL3P (7719-12-2)	А	A to 120°	A to 100% to 200°	A	А	B/NR @ 70°	A to 100% to 150°	A	А	AB to 180°	NR	NO DATA	NR	A to 70°	A to 70°	А	NR	NO DATA	NO DATA
Piranha (3:1 Mixture of Concentrated Sulfuric Acid & 30% Hydrogen Peroxide)	N/A	А	NR	AB	NR	А	A to 90% to 104°	A to 75% to 70° BC 96-98% @ 70-120° **(OK Fluorinated/TEST	A to 98% to 120°	А	NR	NR	NR	NR	А	NR	А	NR	А	NR
Plating Solution, General	N/A	A to 70°	A to 140°	A to 70°	Generally OK (Etching Solution may affect, test)	А	А	A to 140°	Α	А	A to 100°	NO DATA	NO DATA	NO DATA	A to 70°	A to 70°	A	A to 70°	A to 70°	NR
Plating Solution, Cadmium	N/A	A to 90°, Cyanide A/NR @100°, Fluob.	A to 140°	A to 70°	Generally OK (Etching Solution may affect, test)	А	А	A	A	А	A to 90, Cyanide C @ 100°, Fluoborate	NO DATA	NO DATA	NO DATA	A to 140°	A to 70°	A	A to 140°	NO DATA	NR
Plating Solution, Chrome	N/A	A to 130°, Flouride NR @ 90°, Barrel NR @ 115°, Black	A to 70° NR @ 95°, Barrel	A to 70°	Generally OK (Etching Solution may affect, test)	А	AC to 70° C @ 95° (Barrel)	А	A	А	B/NR @ 70°	C/NR @ 70°	NO DATA	A to 70°	A to 140°	A to 70°	А	NR	NO DATA	NR
Plating Solution, Copper	N/A	A to 120°	A to 70°, Barrel A to 120°, Copper A to 120°, Cyanide	A to 70°	Generally OK (Etching Solution may affect, test)	А	А	А	A	А	NR, Electroless A to 120°, Strike A to 70°Sulfate	NO DATA	NO DATA	NO DATA	A to 200°	A to 140°	A	A to 140°	NO DATA	NR
Plating Solution, Nickel	N/A	A to 140°	A to 70° A, Cyanide C @ 70°, Sulfamate	A to 70°	Generally OK (Etching Solution may affect, test)	А	А	A	A	A	NO DATA	NO DATA	NO DATA	NO DATA	A to 70°	A to 140°	A	A to 140° NR @ 70°, Electroless	NO DATA	NR
Plating Solution, Tin	N/A	A to 125°	A to 70° C 100-125°, Fluoborate	A to 70°	Generally OK (Etching Solution may affect, test)	A	A	A to 180°	A	А	NO DATA	NO DATA	NO DATA	NO DATA	A to 140°	A to 104° B @ 140°	A	AB to 140°	NO DATA	NO DATA
Plating Solution, Zinc	N/A	A to 70°, Alk-Cyanide A top 150°, Cyanide NR @ 140°, Chloride	A to 70°, Fluoborate	A to 70°	Generally OK (Etching Solution may affect, test)	А		A to 150°	А	A	NO DATA	NO DATA	NO DATA	NO DATA	A to 140°	A to 70°	A	A to 140°	NO DATA	NO DATA
Polyethylene Glycol (PEG, Carbowax)	C2H6O2 (71767-64-1)	А	A (Short Term) B (Long Term)	NO DATA	A	А	A to 140° AB to 180°	AB to 70°	A to 250°	А	A to 70°Sulfate	NO DATA	NO DATA	A to 70°	A to 212°	A to 176°	A	A to 70° C @ 70° (dynamic)	NO DATA	NO DATA
Potassium Borate (Potassium Metaborate)	BKO2 (20786-60-1)	NO DATA	NO DATA	NO DATA	А	А	A to 180°	A to 150°	Α	А	NO DATA	NO DATA	A to 70°	NO DATA	A to 212°	A to 100% @ 212°	A (Aqeuous Sol to 70°)	AB 70-140° NR @ 176°	NO DATA	NO DATA
Potassium Carbonate (Carbonic Acid) (Potash)	CK2O3 (584-08-7)	A to 90% to 212° AB@100% to 140°	A to 17% to 240° AB 20- 100% to boil	A to 100% to 200°	A at 60-100% to 70°	A to 100% to 500°	A to 225°	A to 160° AB at 180°	A to 100% to 275° AB to 100% at 285°	A to 100% to 500°	A at 60-100% to 180°	A to 70°	A to 200°	A at 5% to 70° NR at 70°	A to 212°	A to 176° AB to 200°	A aqueous sol'n to 70°	A to 200° A to 180°	A to 70°	A to 200° C @ 70° (dynamic)
Potassium Chlorate (Chloric Acid) (Potassium Salt)	CLKO3 (3811-04-9)	B 30-60% 125-212° B to 60%@212° AB @ 100%	A	A	A	А	A to 100% to 180°	A to 100% to 160°	A	А	A to 10% to 70° AB to 100% to 180°	NR	A to 100% to 200°	A to 70°°	A to 140° AB to 200°	A to 130° AB to 140-200°	A	A to 70° AC to 130°	A to 70°	AB to 125° C @ 70° (dynamic)
Potassium Chloride (Salt Substitute)	CLK (7447-40-7)	A to 10% A 10-30% to 125° AB @ 100%	A to 32% to 180° AB 40-100% to 150°	A	А	А	A to 100% to 180°	A to 100% to 160°	A	А	A to 100% to 140° AB to 100% @ 180°	A to 100% to 70°	A to 100% to 200°	A to 100% to 120°	A to 212°	A to 176° AB to 212°	A	A to 176° B @ 212°	A to 70°	A to 100% to 200°
Potassium Hydroxide (Caustic Potash)	KOH (1310-58-3)	A to 50% to 200° AB@100% to 185°	A to 100% to 70° A to 70% to 150°	A to 200° A to 50% to 268°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A A 70% to 185°	A to 100% to 160° AB to 100% at 180°	*A to 25% to 140° A to 10% to 280° A 60-100% to 212°	A	B to 100% to 180°	A to 30% to 70° AB to 100% to 70°	A to 100% to 200°	C at 1% at 70° NR at 1% at 125° NR at 5-100% at 70°	AB to 70° AB to 70% to 140° A 5% to 150°	A to 200° B 25% @ 212	A (Black 550) AB (White 571 & 592)	A to 5% to 150° AB to 150°	A to 70°	AB @ 1% to 70° C 10-100% 70-200 NR (Dynamic)
Potassium Permanganate	KMN04 (7722-64-7)	A to 50% to 75° AB@100% to 200° B to 30% 75-212°	A to 25% to 70° AB to 100% to 100° A@100% to 130°	A to 200°	A to 75°	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 70° A to 25% to 140° A to 10% to 180°	A to 100 % to 160° A to 10% to 180° AB at 20% to 180°	A	A	A to 10% to 140° NR conc100% at 70°	B @ 70°	A to 200°	A to 100% to 200°	A to 140°	A to 200°	А	AC to 150°	A to 70°	B @ 70° C @ 70° (Dynamic)
Potassium Silicate (potassium hydroxy-oxido-oxosilane)	HKO3SI (1312-76-1)	NO DATA	AB	NO DATA	NO DATA	A	A to 70°	A to 70°	A to 275°	A	B @ 70°	NO DATA	NO DATA	NO DATA	A to 160°	A to 160°	A	A to 160°	A to 70°	A to 160°
Potassium Sulfite (Sulfurous Acid)	K2SO3 (10117-38-1)	A @ 100% to 70° A @ 50% to 280°	AB to 100% to 100° A @ 100% to 70°	A to 70°	A	A	A to 100% to 140°	Α	A to 212°	A	AB to 70°	NO DATA	A to 70°	NO DATA	A to 210°	A to 200°	A	A to 100% to 80° AB to 100% to 150%	NO DATA	A to 70°
Propanol (Propyl Alcohol) (Rubbing Alcohol)	C3H8O (67-63-0)	A to 200°	A	Α	A	A	A to 140°	A to 150°	A to 100% to 150°	A	A to 70°	NO DATA	AB to 185°	A to 125°	A to 212°	A to 200°	A	A	A to 120°	A to 200°
Propionic Acid (Propanoic Acid Nitrile)	C3H6O2 (79-09-4)	А	A	NO DATA	A to 212°	А	A 100% to 70°	AB to 70° C @ 122° **(OK Fluorinated/TEST	A 100% to 280°	A	NR	NR	B @ 70-122°	A to 20% to 70° NR 100% @ 70°	A @ 50% to 100° NR 100% @ 70°	A to 100% to 200°		AC Sat 70-200° NR 50% @ 70°	A to 70°	B @ 70° C @ 70°, dynamic
Propylene Glycol (PG-12)	C3H8O2 (57-55-6)	B@100% @ 70°	A to 30% A@80-90% A@60%	A to 70°	A	A to 500°	AB to 160°	A to 140° AB at 180°	A to 275° AB at 280°	A to 500°	A to 70°	A to 70°	B at 70-122°	BC at 70° C/NR at 122°	A to 140°	A to 70°	A to 70°	A to 250°	AB to 70°	A to 250° C @ 70° (Dynamic)
PGMEA (Propylene Glycol Monomethyl Ether Acetate)	C6H12O3 (108-65-6)	А	A	А	В	А	A to 140°	A	AB	А	A to 70° AB to 140°	A to 70°	NO DATA	NO DATA	NR	A 50% to 70°	A	NO DATA	AB to 70°	NO DATA
PGME (Propylene Glycol Monomethyl Ether) (Dowtherm 209 / Dowanol PM)	C4H10O2 (107-98-2) C3Cl6O	A NO DATA	A NO DATA	A to 200°	B A to 212°	Α	A to 140° AB to 150°	A C @ 70°	A to 10% to 122°	A	A to 70 AB to 140°	A to 70°	NO DATA	NO DATA	NR	A 50% to 70°	A	NO DATA	AB to 70°	NO DATA
2 Propanone (Hexachloroacetone)	(116-16-5)	NO DATA	NO DATA	A to 200°	A to 212°	A	Α	C @ 70° NR @ 140° **(OK Fluorinated/TEST	A to 10% to 122° AB 50% @ 77°	A	B @ 100% @ 70° NR @ 140°	B !0% @ 70° NR 50 - 100%	A to 20% to 70° NR 100% @ 70°		C 10% @ 70-104° NR 20-100% @ 70°	A to 200°		NR 50 - 100%	A to 70°	B/NR @ 70°
Propylene Oxide (Methyle Ethylene Oxide)	C3H6O (75-56-9)	A to 70°	A to 140°	NO DATA	А	А	A to 70° AB @ 125°	A to 122° AB @ 140°	NR @ 100% @ 70°	A	NO DATA	NO DATA	B @ 70 -122°	NR	NR	B to 120°	А	NR	A to 120°	NR



For ChemQuik[®], DrumQuik[®], DrumQuik PRO & Other Common Colder Series Coupling Materials (Updated 01/10/2011)

		INTE	RPRETATION O	F TEST DATA (In 3	30 days to 1 year of exposure)
	C	- III:	Lana of Tax	aaila Chaaaath	7
	SWe	elling	Loss of Tel	nsile Strength	
	Linear	Volumetric			Description of Chemical Attack
	(Plastics)	(Elastomers)	(Plastics)	(Elastomers)	
Α	< 10%	<= 15%	< 15%	<=15%	Excellent, little or no swelling, softening or surface deterioration
В	< 15%	<= 30%	< 30%	<= 30%	Good chemical resistance, minor swelling, softening or deterioration
С	< 20%	<= 50%	< 50%	<= 60%	Limited chemical resistance, moderate attack, conditional service
ND	> 20%	> E0%	> E09/	> 60%	Severe attack not recommended for use

WARNING

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		NR NOTE: All temps	> 20% eratures are in de	> 50%	> 50%	> 60% C = (°F - 32)/1.8	Severe attack, not re	ecommended for us	se .		_	couplings!								١
CHEMICAL		I I I I I I I I I I I I I I I I I I I		RING Mater	_	0 = (1 - 02), 1.0				COUPLING	Matarials						SEAL N	laterials		
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	Teflon [®] Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton [®])	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicon
Pyridine (Azine)	C5H5N (110-86-1)	A to 100% to 100° A@100% to 140°	A to 100% to 212°	A to 200°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 75° AB 100% 120-180° NR 100% @ 120°	BC at 70° C at 140° **(OK Fluorinated/TEST	NR)	А	AB to 70°	NO DATA	AB to 50% to 70° NR at 70°	NR at 70°	HIFLUOR A to 70° NR HIFLUOR AB to 70°	B to 160°	А	NR at 70°	AC 70-120°	NR
Sodium Bicarbonate (Baking Soda)	CHNaO3 (144-55-8)	A to 100% to 150° AB to 20% to boiling	A to 100% to 150° A to 20% to 212°	A to 100% to 300°	A to 250°	A to 100% to 500°	A to 225°	A to 160° AB at 180°	A to 100% to 275° AB to 100% at 285°	A to 100% to 500°	A to 200°	A to 100% to 70°	A to 100% to 70°	A to 100% to 200°	A to 212°	A to 176° B at 212°	A to 70°	A to 140° AB to 200°	A to 70°	A to 70
Sodium Bisulfate (Sodium Disulfate) (Sulfuric Acid Disodium Salt) Sodium Bisulfite	H2NAO4S (7757-82-6) HNAO3S	AB to 20% to 180° B to 140° C 25-100% 175-212° A to 6% to 70°	A to 13% to 160° AB 20-100% to 150° A to 100°	A to 200° A to 200°	A to 70° A to 70°	A A	A to 180° A to 180°	A to 150° A to 150°	A	A	A to 5% to 70° AB to 180° NR 5-100% @ 70°	A to 70°	A to 200°	A to 70° A to 70°	A to 212° A to 212°	A to 176° AB to 200° A to 176°	A	A to 70° AB to 200° A to 160°	A to 70° A to 70°	A to 20
(Sodium Disulfite) (Sulfurous Acid Disodium Salt) Sodium Carbonate	(7631-90-5) CNa2O3	B 10-40% to 212° A to 100% to 212°	A to 20% to 180° C 30-50% 125-212° A to 100% to 212°	A to 100% to 300°	A to 100% to 212°	A to 100% to 500°	A to 100% to 225°	A to 100% to 160°	A to 100% to 275°	A to 100% to 500°	A to 100% to 140°	AB to 100% to 70°	A to 100% to 200°	A to 100% to 200°	A to 212°	B 100% @ 212° A to 176°	A to 70°	B 100% @ 212° A to 100% to 160°	A to 70°	A to 2
(Soda Ash) Sodium Chloride	(497-19-8) CINa	A to 100% to 176°	A to 16% to 212°	А	A	A	A	AB to 100% at 180° A to 100% to 160°	AB to 100% at 285°	A	A to 20% to 180° A to 100% to 70°	A to 100% to70°	A to 100% to 200°		A to 100% to 212°	B at 212°	A to 70°	AB to 100% to 200° A to 160°	A to 100% to 120°	A to 7
(Salt) Sodium Chlorite	(7647-14-5) CINaO2	NO DATA	A 25 - 80% to 160° A@100% to 212° NO DATA	AB	А	А	A to 100% to 70°	A to 140°	A	A	AB to 100% 150-180	NO DATA	A to 70°	NO DATA	A to 70°	A to 70°	A	NR	A to 70°	В@
(Sodium Salt) Sodium Citrate (Trisodium Citrate)	(7758-19-2) C5H5Na3O7 (8055-55-8)	A sat'd to 100°	A to 140°	NO DATA	A to 70°	A	A to 50% 100° AB to 100% @ 200° A to 70°	A to 70°	A to 140°	A	A to 70°	NO DATA	A to 70°	NO DATA	C @ 70°	A to 70°	А	NR	NO DATA	C @ 70° (
(Trisodium Citrate) Sodium Hydroxide (Caustic Soda)	(8055-55-8) NaOH (1310-73-2)	A to 100% to 70° A to 50% to 200°	B to 40% @ 212° A to 20% AB 20- 70% to 212°	A to 100% to 70° A to 50% to 140°	A to 100% to 70° A to 54% to 392°	A (PTFE Encapsulated	A to 125° A to 70% to 225°	A to 100% to 140° A to 70% to 160°	A to 50% to 70° A to 20% to 104°	A	A to 60% to 180° AB at 60-80% to 180	A to 25% to 70° AB to 100% to 70°	A to 50% to 120° A to 20% to 200°	A to 20% to 120° A to 15% to 200°	B to 70° B 80% @140°	A to 70° A to 50% to 176°	A (Black 550) AB (White 571 & 592)	A to 20% to 212° A to 50% to 176°	A to 100% to 70°	C @ 70° (A to A @ 20%
Sodium Hypochlorite (Bleach)	CLNaO (7681-52-9)	AB 50-80% to 170° A to 50% to 115° A to 20% to 140°	AB 70-100% to 125° Generally NR A to 6% to 160°	A to 20% to 200° BC 5% to 200°	AB to 100%	316 Stainless St.) A (PTFE Encapsulated	A to 100% to 70° A to 5% to 120°	AB to 100% at 180° A to 100% to 160° AB to 100% at 180°	B 50% @ 100-120° A to 17% AB to 100%	A	BC at 80-100% at 70 NR at 10-100% at 70	B 10-50% @ 70-180° BC to 10% to 70° C @ 5% @ 70°	AB to 50% to 250° A to 100% to 200° A to 17% to 300°	C at 25% at 70-120° A to 10% to 70° AB to 100% to 70°	AB to 100% to 130° BC 20% @ 158°	B 20% @ 212° A to 14% to 122° AB 20-100% to 130	A	NR	A to 20% to 70°	B 50% 7 A to 5% B 5-100%
Sodium Metasilicate (Silicic Acid)	(10022-70-5) Na203Si (68-34-0)	AB@100% to 200 A to 100% to 212°	A sat'd to 200° A	NO DATA	А	316 Stainless St.) A	C 12-13%>70°, NR @104° A to 180° B @ 212°	А	A	A	B @ 70°	NR @ 70° NO DATA	А	C at 15% at 125-150° NO DATA	A	A to 176° B @ 212°	А	A to 180°	A to 70°	C @ 70° AB 1 C @ 70°
Sodium Silicate (Water glass) (Silicic Acid Sodium Salt)	Na4O4Si (1344-09-8)	A to 140°	A to 212°	А	Α	А	A to 180°	A to 150°	А	A	AB to 70°	NO DATA	A to 200°	NO DATA	A to 212°	A to 176°	А	A to 140°	A to 70°	A to
Sodium Sulfide (Sodiu8m Monosulfide)	Na2S (1313-82-2)	A to 25% to 70° A to 20% to 125° A @ 100% to 130°	AB 20-30% to 175° AB @ 100%	А	А	А	A to 100% to 180°	AB to 100% to 150°	A	A	A to 70°	A to 70°	A to 200°	A to 200°	A to 70°	A to 100% to 200°	А	A to 100% to 140°	A to 100% to 70°	A to 100
Sodium Sulfite (Disodium Sulfite) (Sulfurous Acid) Sodium Tripolyphosphate	Na2O3S (7757-83-7) Na5O10P3	A 20-100% to 130° A to 5% to 100° B to 30% to 212° NO DATA	A to 100% to 70° AB to 30% to 175° A to 100% to 120°	A to 70°	A	A	A to 175°	A to 140° A to 140°	A	A	A to 70° A to 10% to 150° NO DATA	AB to 70°	A Solution to 70° A to 70°	A/NR @ 70° NO DATA	A to 100% to 140° AB to 70°	A to 100% to 140° AB to 100% to 200° AB to 70°	Α	A to 100% to 70° AB to 100% to 200° A to 70°	A to 70% NO DATA	A to 100
Soybean Oil	(7758-29-4)	A A	A 16-50% to 175°	A	A	A	A 10 173	A 10 140	A	A	A	B @ 70°	NO DATA	A	AB 10 70	NR	A	A 10 70	B @ 70°	C @ 70
STERIS® CIP 100 (Potassium Hydroxide &	Alkaline Cleaner KOH &	A to 200°	A to 150°	A	A to 212°	A	А	NO DATA	A to 140°	A	NO DATA	A to 30% to 70° AB to 100% to 70°	NO DATA	NO DATA	AB to 140°	A to 200°	A (Black 550) AB (White 571 & 592)	NO DATA	Α	NO
Tetrasodium EDTA) STERIS® CIP 200 (Phosphoric Acid &	C10H12N2Na4O8 Acid Cleaner H3PO4	A to 200°	A to 150°	A to 220°	Α	A	А	А	A	A	С	В	A	В	A	A to 176°	Α	AB to 104°	A to 70°	
Citric Acid) Sulfamic Acid (Aminosulfonic Acid)	C6H8O7 H3NO3S (7773-06-0)	B @ 10%	NR @ 10% @ 70° A @ 20% to 70° A @ 100% to 70°	NO DATA	NR	А	A to 180°	A to 150°	A to 200°	A	NO DATA	NO DATA	NO DATA	NO DATA	B @ 70° (Static) NR (Dynamic) HIFLUOR A to 70°	A to 70°	A	NR	NO DATA	B (C @ 70°
Sulfonic Acid (Sulfurous Acid, Hydrogen Sulfite)	HO3S (15181-46-1)	В	A to 3% to 127° A to 10% to 70° B 10-100% @ 70°	A to 200°	A to 212°	А	AB to 180°	NO DATA	A to 212	А	C @ 10% @ 70°	A to 10% B @ 100% @ 70°	A to 200°	A to 70°	NR HIFLUOR A to 70°	A to 75% to 70° B @ 100% 70-212°	А	A to 5% to 70° C 10-85% @ 70°	A to 70°	B 0 C @ 70°
Sulfuric Acid (Air-free) (Better when aerated) Tetrachloroethylene	H2SO4 (7664-93-9)	A to 60% to 70° A 90-100% to 100° (A to 100% to 140°)	A to 5% to 175° NR 10-100% @ 70° B 100% to 125°	A 10-75% to 70° AB to 98% to 220°	A to 40% to 100° NR > 40%	A (Encaps. 316ss)	* A to 90% to 104° * AB 93-95% @ 70° * BC 98%@ 70-122°	A to 75% to 70° AB 80 -90% to 122° AC 90-95%@ 70-122°	A to 90% to 212° A to 96% to 175° A to 98% to 120°		NR at 30% at 70°	A to 25% to 70° B 30% 70-100° NR 80-100%@ 70°		A to 50% to 70° A to 10% to 180° AB 20-30% at 122-200°	A to 100% to 158° A to 70% to 176° A to 50% to 212°	A to 90% to 70° A to 80% to 140° A 10% to 176°	A	A at 60% to 140° A at 50% to 70° A to 30% to 140°	A to 95% to 70° BC 95-98% @ 70° NR 95-100% @ 70°	
(PERC/PERK) Tetra Ethyl Ortho Silicate	C2CH4 (127-18-4) Si(OC2H5)4	A to 212°	A to 212°	AB @ 100% NO DATA	A	A to 212°	NR 100% @ 70° B Low Conc. @ 70° A to 100°	NR 100% @ 70° B 10% @ 70° **(OK Fluorinated/TEST A to 100°	A to 100% to 176°) NO DATA	A NO DATA	A to 70° AB 70°-140° NO DATA	NR NO DATA	NR NO DATA	NR NO DATA	A to 70°	NR A to 125°	A to 125°	NR @ 70°	NR NO DATA	NO
(TEOS, tetraethoxysilane) Tetrahydrofuran	(78-10-4) (9044-80-8) C4H8O	A to 200°	A to 200°	A 100% to 140°	A to 70°	Α	BC @ 70°	NR at 70°	C 10-100% @ 70°	Α	A to 70°	NR	NR at 200°	NR at 70°	NR	NR	A	NR at 70°	B @ 70°	
(Tetramethylene Oxide) (THF) etra Methyl Ammonium Hydroxide	(109-99-9) C4H13NO	NO DATA	NO DATA	C 100% @ 200°	А	(PTFE Encapsulated 316 Stainless St.) A to 100% to 500°	C/NR @ 100-120° NR @ 140° A to 150°	**(OK Fluorinated/TEST AB	NR @ 120°) A to 100% to 200°	A to 100% to 500°	NO DATA	NO DATA	NO DATA	NO DATA	HIFLUOR A to 70°	A to 70°	А	NR	NO DATA	В
(TMAH) Thionyl Chloride (Sulfinyl Chloride)	(75-59-2) (93615-68-0) CL2OS (7719-09-7)	NO DATA	NR	NO DATA	A to 70°	А	B/NR 10 - 100%@70°	NR	A to 50% to 215°	A	AC at 70°	NO DATA	NR at 70°	NR at 70°	HIFLUOR A to 70° AB to 70°	NR	A	NR at 70°	B @ 70°	C @ 70
(Sulfinyl Chloride) (Sulforous Chloride) Toluene (Toluol)	(7/19-09-7) C7H8 (108-88-3)	A to 212°	A@100% to 212°	A to 100°	A to 75°	A (PTFE Encapsulated	NR	**(OK Fluorinated/TEST AB to 70° C/NR at 70°	A to 140° AB @ 176°	A	A to 70° AB at 140°	NR	NR at 70°	NR at 70°	A to 100° BC to 200°	NR	А	NR 30-100% at 70°	NR	
Trichloroacetic Acid (TCA)	C2HCL302 (76-03-9)	A@100% to boiling AB to 100% to boil.	NR	A to 200°	A to 68° (Fluoroware)	316 Stainless St.) A (PTFE Encapsulated	A to 140° AB @ 150°	NR at 140° A to 10% to 140° AC at 70-150°	BC 176-212° A to 75° A to 65% to 212°	A	C at 180° NR at 70°	NO DATA	B at 70-122°	A to 20% to 70° C/NR 100% at 70°	NR	B at 70°	A	NR at 70°	BC @ 70°	



For ChemQuik®, DrumQuik®, DrumQuik PRO & Other Common Colder Series Coupling Materials (Updated 01/10/2011)

		INTE	RPRETATION O	F TEST DATA (In 3	0 days to 1 year of exposure)								
	Swe	elling	Loss of Ter	nsile Strength									
	Linear	Volumetric			Description of Chemical Attack								
	(Plastics)	(Elastomers)	(Plastics)	(Elastomers)									
Α	< 10%	<= 15%	< 15%	<=15%	Excellent, little or no swelling, softening or surface deterioration								
В	< 15%	<= 30%	< 30%	<= 30%	Good chemical resistance, minor swelling, softening or deterioration								
С	< 20%	<= 50%	< 50%	<= 60%	Limited chemical resistance, moderate attack, conditional service								
NR	> 20%	> 50%	> 50%	> 60%	Severe attack, not recommended for use								

e Chemical Resistance guide published by VICTREX, the manufacturer of PEEK™ and c) the chemical manufacturers themselves. The table is to be us as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the

CHEMICAL	SPRING Materials				COUPLING Materials									SEAL Materials						
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	Teflon [®] Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton [®])	EPDM	FFKM (Chemraz [®] / Simriz [®] / Kalrez [®])	Buna	TPO (Santoprene)	Silicone
Trichloroethylene (Ethylene Trichloride) (Triad)	C2HCL3 (79-01-6)	B@90% to 212° A@100% to 212°	A@90% to 212° A@100 to 140°	AC 70-100° NR @ 200°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	NR	B at 70° C at 122° **(OK Fluorinated/TEST)	A to 189° (blackens)	А	AB at 70-180°	NR	NR at 70°	NR at 70°	A to 200°	В	А	NR at 70°	NR	NR
Triethylamine (Triethyle Amine)	C6H15N (121-44-8)	NO DATA	А	NO DATA	A to 130° NR > 150°	А	NR	AB to 70° C @ 120° **(OK Fluorinated/TEST)	A to 70° (Turns Brown)	А	A to 70°	NO DATA	NO DATA	NO DATA	NR HIFLUOR A to 70°	А	А	A to 140°	B @ 70°	NR
Triethanolamine (TEA)	C6H15NO3 (102-71-6)	A 100 to 200°	AB to 100% to 75° A 1% & 100% to 200°	A 100% to 200°	A to 70°	А	AB @ 100% 70-185°	AB to 70% NR @ 120° **(OK Fluorinated/TEST)	AB to 100% to 125°	A	NR	AB to 70°	NR	NO DATA	NR HIFLUOR A to 70°	A to 160°	A	B to 100°	A to 70°	NR
Trifluoroacetic Acid (Perfluoric acid, Perfluoroacetic acid) (TFA)	C2HF3O2 76-05-1	В	A	NO DATA	NO DATA	А	C @ 70°	В	A to 125°	А	NO DATA	NO DATA	C/NR	NR	C @ 70° HIFLUOR A to 70°	А	В	C @ 70°	NO DATA	B @ 70° C @ 70° (Dynamic)
Trimethylbenzene (Pseudocumene)	C9H12 (95-63-6)	NO DATA	NO DATA	NO DATA	A	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	A to 70°	NR	А	B @ 70° C @ 70° (dynamic)	NO DATA	NO DATA
UREA (AdBlue, AUS32, Aqueous Urea Sol. 32.5%) (DEF, Diesel Exhaust Fluid, BlueTec)	CH4N2O 57-13-6	A to 130° AB to 200°	A to 200°	A to 200°	A to 212°	А	A to 100% to 180°	A to 100% to 150°	A to 100% to 250°	А	A to 100% to 70°	B @ 70°	C @ 70°	NR	A to 70° AB to 200°	A to 70° AB to 200°	A	AB to 150°	NO DATA	AB to 70°
Xylene (Xylol)	C8H10 (1330-20-7)	А	A 75-100% A@50% to 220°	A to 200°	A to 70°	A (PTFE Encapsulated	C @ 70-140° NR @ 150°	NR at 70°	A to 175° A to 100% to 175°	A	A to 140° AB at 180°	NR	NR at 100% at 70°	NR at 70°	A to 140°	NR	A	NR at 70°	NO DATA	NR @ 70°

The compatibility data was assembled from 3 main sources, a) the Chemical Resistance Guides published by COMPASS PUBLICATIONS ©, b) the Chemical Resistance guide published by VICTREX, the manufacturer of PEEK[™] and c) the chemical manufacturers themselves. The table is to be used as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with its use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the couplings!

* PVDF may discolor after prolonged exposure in Potassium Hydroxide.

* Polypropylene may discolor after prolonged exposure in Sulfuric Acid.

** Flourination of HDPE has been shown to dramatically improve the chemical resistance of HDPE material with certain chemicals. Samples are available to allow customers to evaluate in their specific application. Contact CPC Inside Sales for assistance. HIFLUOR® Fluorinated FKM will often be compatible in applications where standard FKM is "NR". It bridges the price gap between FKM & FFKM perfluoroelastomers and is available only by special order (minimums may apply). Contact CPC Inside Sales for assistance. Viton® Kalrez® & Teflon® are registered trademarks of Dupont, PEEK™ is a trademark of Victrex USA, Inc, Chemraz® is a registered trademark of International Seal, Hifluor® is registered trademark of Parker Hannifin.

NOTE: All temperatures are in degrees Fahrenheit. Conversion: °C = (°F - 32)/1.8