



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)											SECONDARY SEALS																	
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#*	GFT*	CER*	SIL CARB	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NITR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**				
ACETALDEHYDE (Ethanal)		100	A	A	N		A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A		N	N	N	N		N	N	A	N	A	N	A	A	A	C		
ACETATE SOLVENTS		100	N	A	N		A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A		N	N	N	N			C	A					A	A		
ACETONE, DRY			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
ACETIC ANHYDRIDE (Ethanoic Anhydride)	20		N	C	C	N	A	A	A	A	A	A	A	A	A	C	N	A	A	A	A	A	A	A	A	N	N	N	C	N	N	C	A	N	C	N	A	N	A	A	A	A
ACETYLENE GAS			N	N			A	A	A	A	A	A	A	A	A	N		A	A	A	A	A	A	A	A		N	N				A	C	A	A	A	A	A	A	A	A	A
ACID, ACETIC (Ethanoic Acid)	COLD	CONC	N	A	A	A	A	A	A	A	A	A	A	A	A	N	N	A	A	A	A	A	A	A	A	A	C	C	A	N	C	C	A	A	A	A	A	A	A	A	A	
ACID, ACETIC (Ethanoic Acid)	COLD	DILUTE	N	A	A	A	A	A	A	A	A	A	A	A	A	N	N	A	A	A	A	A	A	A	C	A	C	C	A	N	C	C	A	A	A	A	A	A	A	A	A	
ACID, ACETIC (Ethanoic Acid)	HOT	CONC	N	A	C	A	A	A	A	A	A	A	A	A	A	N	N	C		A	A	A	A	C	A	N	N	C	N	N	N	A	N	N	N	N	A	A	A	A	A	
ACID, ACETIC (Ethanoic Acid)	HOT	< 15	N	A	C	C	A	A	A	A	A	A	A	A	A	N	N	C		A	A	A	C	C	N	N	C	N	N	N	A	N	N	N	N	A	A	A	A	A		
ACID, ACETIC & PROPIONIC	COLD		N	A	A	N	A	A	A	A	A	A	A	A	A	N	C	A	A	A	A	A	A	A	N	C	C	A	N	C	C	A	A	A	A	A	A	A	A	A	A	
ACID, ALKYL-ARYLSUPHONIC	70					C								A			A																									
ACID, ARSENIC, ORTHO							A	A	A	A	A	A	A	A	A		N	A	A	A	A	A	A	A		A					A	A	A	A	A	A	A	A	A	A	A	A
ACID, BENZOIC							A	A	A	A	A	A	A	A	A			A	A	A	A	A	A	A		N	N				N	N	A	A	N	A	A	A	A	A	A	A
ACID, BORIC (Boracic Acid)	95	50	N	A	C	A	A	A	A	A	A	C	A	A		A	A	A	C	A	A	A	A	A	A	C	C	C	N	A	A	A	A	A	A	A	A	A	A	A	A	
ACID, BORIC, AQUEOUS (Boracic Acid)			N	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	C	N	A	A	A	A	A	A	A	A	A	A	A	A	
ACID, BUTYRIC (Butanic Acid)		100					A	A	A	A	A	A	A	A	A			A	A	A	A	A	A	A						N	N	A	C	C	C	A	A	A	A	A	A	A
ACID, CARBOLIC																																										A
ACID, CARBOLIC (Phenol)	AMB		N	A	C	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	C	N	N		A	N	C	N	A	A	A	A	A	A	
ACID CARBOLIC (Phenol)	205	ALL	N	A	C	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	C	N	N	N	A	N	C	N	A	A	A	A	A	A	
ACID, CARBONIC, AQUEOUS				N	C	C	A	A	A	A	A	A	A	A	A	N	N	A	A	A	A	A	A	A	C	N	N	C	N	C	A	A	A	A	A	A	A	A	A	A	A	A
ACID, CHLOROACETIC (Ethyl Chloracetate)			N		N		N	N	N	A	A	A	A	A	A		N	N	N	A	N	N	N		N	N	N		N	N	A	N	C	N	A	A	A	A	A	A	A	A
ACID, CHLOROSULFONIC	COOL	< 50	N		N		N	N	N	A	A	A	A	A	A		N	N	N	A	N	N	N		N	N	N		N	N		N	N	A	N	N	N	A	A	A	A	A
ACID, CHROMIC, AQUEOUS	COOL	< 90	A	N	N		C	A	A	A	A	A	A	A	A		C	C	C	A	A	A	C		N	N	N		N	N	A	N	C	N	A	A	A	A	A	A	A	
ACID, CITRIC, AQUEOUS	HOT		N	A	C		A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A		N	N	C		A	A	A	A	A	A	A	A	A	A	A	A	A	A
ACID, COCOANUT, FATTY			N	A	C		A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A		A	A	C		C	A	A	A	A	A	A	A	A	A	A	A	A	A
ACID, CRESYLIC (Alkyl Phenots)			N	A			A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A						N	N	A	A	N	A	A	A	A	A	A	A	A	A
ACID, CRESYLIC (Alkyl Phenots)			N	A			A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A						N	N	A	A	N	A	A	A	A	A	A	A	A	A
ACID, CRESYLIC	COOL		N	A			A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A						N	N	A	A	N	A	A	A	A	A	A	A	A	A
ACIDS, FATTY, OLEIC	95		N	A	C		C	A	A	A	A	A	A	A	A		A	C	C	A	A	A	C		C	C	C		C	C	A	A	N	A	A	A	A	A	A	A	A	
ACID, PALMITIC, STEARIC			N	A	C		C	A	A	A	A	A	A	A	A		A	C	C	A	A	A	C		C	C	C		C	C	A	A	N	A	A	A	A	A	A	A	A	
ACID, FORMIC (Methanoic Acid)	HOT	90	N	A	C	N	C	A	A	A	A	A	A	A	C	N	A	C	C	A	A	A	C	N	C	C	C	N	C		A	A		A	A	A	A	A	A	A	A	

<input type="checkbox"/> A Acceptable	<input type="checkbox"/> C Use with caution Corrosion >.0210 IPY detrimental to part	<input type="checkbox"/> N Not recommended	<input type="checkbox"/> Unknown	* Designates standard face material	** Registered trademark E.I. DuPont
				† Consult Manufacturer . Various grades available	## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

ACID, FRUIT						C	A	A	A	A	A	A	A	A		N	A	A	A	A	A	A	A	C				N	A	A	A	A		A	A	A	A	A	A	A				
ACID, HYDROBROMIC										A	A	A	A	A																											A	A	A	A



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)											SECONDARY SEALS																
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#*	GFT*	CER*	SIL CAR	BRONZE	TC-C	NFRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NTR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**			
ACID, STEARIC & OLEIC			C	A	C		A		A	A		A	A	A	A			C	A	A	A		A	A		N	N	C			C	C	A		C		A	A	A		
ACID, SULFONIC	60	DILUTE					N			A		A	A								A			N																	
ACID, SULPHURIC	COLD	ALL	N	C	N	N	N	A	C	A	A	A	A	A	N	N	N	N	N	N	A	A	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACID, SULPHURIC	< 120	< 60	N	C	N	N	N	N	C	A	C	A	A	A	N	N	N	N	N	N	A	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACID, SULPHURIC	< 65	< 95	N	C	N	N	N	C	C	A	A	A	A	A	N	N	N	N	N	N	A	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACID, SULPHURIC	< 75	< 10	N	C	N	N	N	A	A	A	A	A	A	A	N	N	N	N	N	N	A	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACID, SULPHURIC, FUMING (Oleum)	COLD	20-25	N	C	N	N	N	A	N	A	C	A	A	A	N	N	N	N	N	N	A	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACID, SULPHUROUS, WET	ANY	ALL	N	N	N	N	N	C	N	N	A	A	A	A	N	N	N	N	N	N	A	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACID, TANNIC	< 65		N	A	N		A		A	A	A	A	A	A						A	A	A	A		N	N	N				A	C	A	A	A	A	A	A	A	A	
ACID, TARTARIC, AQUEOUS	HOT		N	A	N		A	A	C	A	A	A	A	A	N					C	A		A	A	A	N	N	N				A	C	A	A	C		A	A	A	
ACID, TEREPHTHALIC							A		A	A		A	A	A	N					C	A	A	A		A	A	N	N										A	A		
ALRYLONITRILE							A		A	A		A	A	A						C	A		A	A	A	N	N														
ALCOHOL (Ethyl)			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ALDEHYDE			A	A	N		A	A	A	A	A	A	A	A	A					A	A	A	A	A	A		N	N													
ALKANES			A	A	A		A	A	A	A	A	A	A	A	A					A	A	A	A	A	A		A	A													
ALKYL-ARYLSULPHONICS				A		N	A	A	A	A		A	A	A	A	N	A	A	A	A	A	A	A	A	N	A			N	N	N	A	A								
ALKYL CETONE							A		A	A		A	A	A						A	A	A	A	A																	
ALKYL ALCOHOL			A	A	A		A	A	A	A	A	A	A	A	A					A	A	A	A	A	A		A	A													
ALKYL AMINE				N			A	A	A	A	A	A	A	A	N					A	A	A	A	A	A		N														
ALKYL BENZENE							A	A	A	A	A	A	A	A						A	A	A	A	A	A																
ALKYL CHLORIDE							A			A		A	A	A	N					A					A																
ALKYLATE, LIGHT					A		A	A	A	A	A	A	A	A						A	A	A	A	A	A																
ALPHA PICOLINE							A		A	A		A	A	A						A		A	A	A																	
ALUM SOLUTION			N	C	N		C	A	C	A	A	A	A	A	N					C		A	A	C	C		N	N	N												
ALUMINUM CHLORIDE		ALL	N	C	N		C	A	C	A	A	C	A	A	C					N	N	N	C	C	N	C		N	N	N											
ALUMINUM, HYDROXIDE (Boehmlite)			A	A	A		A	A	C	A		C	A	A	C	A				A	C	A	A	C	A		N	N	N	A											
ALUMINUM SULPHATE, AQUEOUS			N	A		N	A			C	A	A	A	A	N					A	A	A	A		A	N	N	N	N												

A Acceptable
 C Use with caution Corrosion > .0210 IPY detrimental to part
 N Not recommended
 Unknown

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer. Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

AMINE, FAT CONDENSATE			A		A		A	A	A	A	A	A	A	A						A	A	A	A	A	A															
AMMONIA, ANHYDROUS	< 50		A	N	A	A	A	A	A	A	A	C	A	A	C	N	A	A	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
AMMONIA, AQUA	< 50	> 10	C	N	A	C	A	C	N	C	C	A	C	A	A	N	C	N	A	A	A	C	N	A	C	A	N	A	C											
AMMONIA, AQUA	< 50	< 10	C	N	A		A	C	N	C	C	A	C	A	A	N				N	A	A	A	C	N	A		A	N	A										
AMMONIA, GAS (Dry)			A	N	A		A	A	A	A	A	C	A	A	C	N				A	C	A	A	A	A		A	N	A											
ALUMINUM BICARBONATE (Aqueous)			A				A	A	A	A	A	A	A	A						A	A	A	A	A	A		N	N												



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)											SECONDARY SEALS																
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#*	GFT*	CER*	SIL CAR	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NITR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**			
CALCIUM PHOSPHATE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
CANE JUICE			N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
CARBONATE OF SODA (Aqueous)			C	C		A	A	A	A	C	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N			A	A	A	A	A	A	A	A	A	A	A	A
CARBON BISULFIDE						A	A		A	A	A	A	A	A	A	N	A	A	A	A	A		A	A	A				A	N	N	A	A	N	A	A	A	A	A	A	
CARBON DIOXIDE (DRY)			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	A	A	N	C	C	C	C	C	C	A	A	A	A	
CARBON DIOXIDE (Wet)			N	A	N	A	A	N	A	A	A	A	A	A	A	N	A	A	A	A	A	N	A	A	A	N	N	N	A	A	C	C	C	C	C	C	A	A	A	A	
CARBON DISULFIDE				C		A	A		A	A	A	A	A	A	A	N	A	A	A	A	A		A	A	A				A	N	N	A	A	N	A	A	A	A	A	A	A
CARBON MONOXIDE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	A
CARBON TETRACHLORIDE (Anhydrous)		> 10	N	A	N	A	A	A	A	C	A	A	A	A	A	N	A	N	A	A	A	A	A	A	A	N	N	N	A	C	N	A	A	N	A	A	A	A	A	A	
CATSUP			N	N	N	A	A	A	A	A	A	A	A	A	A	N	A	N	A	A	A	A	A	A	A	N	N	N	A			A	A		A	A	A	A	A	A	A
CAUSTIC (Chloride of Sodium)			N	A	N		N	A	A	A	A	C	A	C	A	A		A	N	N	A	A	A	N		N	N	N		A	A	A	A	A	A	A	A	A	A	A	
CAUSTIC CYANOGEN			A		A	A	A	A	A	A	A	A	C	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A		A	A		A	A	A	A	A	A	A	
CAUSTIC POTASH (Aqueous)		< 50	N	N	N	A	C	A	A	C	C	A	C	C	A	N	A	N	C	C	A	C	A	C	A	N	N	N	C	C	C	A	C	A	C	A	C	A	C	A	
CAUSTIC SODA (Aqueous)	65	< 50	A	N	A	A	A	A	A	A	A	C	C	A	N	A	A	A	A	A	A	C	A	A	A	A	N	A	A	C	A	A									
CAUSTIC STRONTIA (Aqueous)												A		A																		A									
CAUSTIC SULFIDE												A		A																		A									
CAUSTIC ZINC CHLORIDE (Aqueous)												A		A																	A										
CHLORIDE OF LIME			N	N	N		N	N	A	A	A	A	A	A	N		C	N	N	N	N	N	N	N	N	N	N		C	C	A	A	A	A	A	A	A	A	A	A	
CHLORIDE OF ZINC (Aqueous)									A	A	A			A																	A										
CHLORIDE SOLVENTS (Dry)			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	N	N	A	A	N	A	A	A	A	A	A	A
CHLORINATED SOLVENTS (Wet)			N	C	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	N	N	A	A	N	A	A	A	A	A	A	A

A Acceptable
 C Use with caution Corrosion > .0210 IPY detrimental to part
 N Not recommended
 Unknown

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer. Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

CHLORINE (Dry)			A	A	C	C	A	A	A	A	A	A	A	N	C	C	A	A	A	A	A	A	A	C	N	N	C	C	N	N	A	A	N	A	A	A	A	A	A		
CHLORINE (Wet)			N	N	N	N	N	C	N	N	A	A	A	A	N	N	N	C	C	A	C	N	N	N	N	N	N	N	N	N	N	A	A	C	A	A	A	A	A	A	
CHLORACETONE						A	A		A	A		A	A	A	A									A	A				A	N	N	A	N	A	N	A	A	A	A	A	
CHLOROBENZENE			A	C	C	A	A		A	A	A	A	A	N	A	N	A	A	A				A	A	A	N	N	C	A	N	N	A	A	N	A	A	A	A	A	A	
CHLOROFORM			A	A		A	A	C	A	A	A	A	A	A	N	A	N	A	A	A	C	A	A	A	N	N		A	N	N	A	A	N	A	A	A	A	A	A	A	A
CHLOROPICRIN						A	A		A	A	A	A	A	A		A									A	A				A							A	A	A	A	
CHROME ALUM							A	A	A			A	A	A	A										A		N	N		A	A	A	A	A	A	A	A	A	A	A	A
CHROMIC OXIDE (Aqueous)		50	N	N	N				N	N	C	C	A	A	A	N		N	N	N	N							N	N		N	N	C	A	C	A	A	A	A	A	
CHROMIUM POTASSIUM SULFATE (Aqueous)		10					A		A	A		A	A	A	A															A	A	A	A	A	A	A	A	A	A	A	A
COCOA BUTTER			A			A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A	A	A	A	A	A							A	A	A	A	A
COCOANUT OIL			A			A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	
COD LIVER OIL			A			A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A	A	A	A	C						A	A	A	A	A	A



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)											SECONDARY SEALS																
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#1	GFT*	CER*	SIL CAR	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NTR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**			
CONDENSATE (Water)			A	A	A	A	A	A	A	A	A	A	A	A	C	A	C	A	A	A	A	A	A	A	A	N	C	A	A	A	C	A	A	A	A	A	A	A	A	A	
CONDENSATE (Blue Verdigris)					A	N	A	A		A	A	A	A	A		N	N	N	A	N	N	N	N	A	N	N	N	N	N	C	C	A	N	A	N	A	A	A	A	A	
COPPER AMMONIUM ACETATE (Aqueous) CAA			A	N	A	N	A	A	N	A	A	A	A	A	N	N	N	N	A	N	N	N	N	A	N		N	N	N			A									
COPPER CHLORIDE					A	A			N	N		A	A	A	A	A										A			A	C	A	A	A	A	A	A	A	A	A	A	
COPPER CYANIDE				N				A				A	A	A	A				A	A	A	A	N	A			N			A	A	A	A	A	A	A	A	A	A	A	A
COPPER NITRATE				C		A	A	A				A	A	A	A	A			A	A	A	A	N	A	A						A	A	A	A							
COPPER SULFATE (Blue Vltrior) (Aqueous)		10	N	A	N	A	A			A	A	A	A	A		A			A	A	A						N	A	A	A	A	A	A	A	A	A	A	A	A	A	
COPPER SULFATE (Blue Vltrior) (Aqueous)		50	N	N	N	A	A	A	A	A	A	A	A	A	N	A			A	A	A	A					N	N	A	A	A	A	A	A	A	A	A	A	A	A	A
COPPERAS (Green)								A	A	A		A	A	A	A																										
CORN OIL			A		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	C	A	A	N	A	A	A	A	A	A	
COTTON SEED OIL			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A	A	A	
CREOSOTE (Coal Tar)			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	C	A	A	N	A	A	A	A	A	A	A	
CREOSOL META						A	A			A		A	A	A	A				A	A	A							A	N	N	A	A	N	A	A	A	A	A	A	A	
CRUDE OIL			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A		N		A	C	N	A	A	N	A	A	A	A	A	A	
CUPRIC SULFATE (Aqueous)			N	N	N	A	A	C	A	A	C	A	A	A	A	N	A			A	A	A	C				N	A	A	A	A	A	A	A	A	A	A	A	A	A	A
CUPROS AMMONIA ACETATE (Aqueous)			A	N	A	N	A	A		A	A	A	A	A	N	N	N	N	N	N	N	N	N	N	A	N	N	N	N			A									
CUTTING OIL			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	C	A	A	N	A	A	A	A	A	A	A	A	
CYANIDE (Aqueous)									A			A																A													
CYANOGEN IN WATER							A		A	A		A	A	A	A					A	A	A																			

A Acceptable
 C Use with caution Corrosion > .0210 IPY detrimental to part
 N Not recommended
 Unknow

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer. Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

CYCLOHEXANE (Hexahydrobenzene)			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	A	N	A	A	A	A	A	A	A	A	
CYCLOHEXANE (Texahydrobenzene)						A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N		A	C	C	A	A	N	A	A	A	A	A	A
CYCLOHEXANONE						A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N		A	N	B	A	N	C	N	A	A	A	A	A
DDT SOLUTION (Tolueng Sotv)				A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	N	B	A	A	N	A	A	A	A	A	A
DDT SOLUTION (Kerosene Sotv.)				A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	A	C	A	A	N	A	A	A	A	A	A
DE-BUTANIZER REFLUX			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	A	C	A	A	N	A	A	A	A	A	A
DE-ETHANIZER CHARGE			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	A	C	A	A	N	A	A	A	A	A	A
DE-PROPANIZER REFLUX			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	A	C	A	A	N	A	A	A	A	A	A
DIACETONE ALCOHOL					A	A	A	A	A	A	A	A	A	A	N	A			A	A	A	A	A	A	A	N	N	A	A	N	N	A	N	A	N	A	A	A	A	
DIBUTYL AMINE						A	A	A	A	A	A	A	A	A	N	A			A	A	A	A	A	A	A	N	N		A	N	N	A	N	N	N	N	A	A	A	A
DIBUTYL CELLUSOLVE ADIPATE							A	A	A	A	A	A	A	A					A	A	A	A	A	A																
DIBUTYL PHTHALATE							A	A	A	A										A	A	A																		
DIBROMOETHYL BENZENE							A	A	A	A	A	A	A	A	N					A	A	A	A	A	A		N	N												
DIBUTYLETHER							A	A	A	A	A	A	A	A	N					A	A	A	A	A	A		N	N												



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS										STATIONARY OR ROTARY RING (FACE)														SECONDARY SEALS												
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#†	GFT*	CER*	SIL CAR	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NTR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**	
ETHYL BENZENE			C	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	N	A	A	N	N	A	A	A	A	A	A	A	A
ETHYL BENZOATE												A	A		A															N	N	A	A	N	A	A	A	A	A
ETHYL CELLOSOLVE												A	A		A															N	N	A	N	C	N	A	A	A	A
ETHYL CHLORIDE (Dry) (Chloroethane)			A	A	A		A	A	C	C	A	A	A	A	A		N	A	A	A	A	A	A	A		A	N	A	A	A	A	A	A	A	A	A	A	A	
ETHYL CHLOROCARBONATE												A	A		A															N	N	A	A	N	A	A	A	A	A
ETHYL CHLOROFORMATE												A	A		A															N	N	A	A	N	A	A	A	A	A
ETHYL CHLOROHYDRIN												A	A		A															N	C	A	A	C	A	A	A	A	A
ETHYL ETHER (Ethyl Oxide)												A	A		A															N	N	A	N	N	N	A	A	A	A
ETHYL FORMATE												A	A		A															N	C	A	A	C	A	A	A	A	A
ETHYL HEXANOL												A	A		A															A	A	A	A	A	A	A	A	A	A
ETHYL PYRIDINE						A		A	A	A	A	A	A						A	A	A		A	A							A						A	A	A
ETHYLENE (Ethene)			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	A	A	A	A	A	A	A	A	N	N	A	A	A						A	A	A	A
ETHYLENE CHLORIDE (Ethylene Dichloride)			A			A	A	A	A	C	A	A	A	A					A	A	A		A	A						N	N	A	A	N	A	A	A	A	A
ETHYLENE GLYCOL												A	A		A															N	C	A	A	C	A	A	A	A	A
ETHYLENE OXIDE												A	A		A															A	A	A	N	A	N	A	A	A	A

Acceptable
 Use with caution Corrosion > .0210 IPY detrimental to part
 Not recommended
 Unknown

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer. Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

ETHYLENE DICHLORIDE (Ethylene Chloride)			A			A	A	A	A	C	A	A	A	A				A	A	A		A	A						N	N	A	A	N	A	A	A	A	A	
ETHYLENE GLYCOL			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A						A	A	A	A
ETHYLENE OXIDE			A			A		A	A	A	A	A	A	A				A	A	A		A	A						N	N	A	N	N	N	A	A	A	A	
ETHYLENE OXIDE & FREON 12		12/80	A			A		A	A	A	A	A	A	A				A	A	A		A	A						N	N	A	N	C	N	A	A	A	A	
ETHYLENE TRICHLORIDE									A	A	A	A																	N	N	A	A	N	A	A	A	A	A	
FERRIC CHLORIDE (Aqueous)			N	N	N	N	N		N	A	A	N	A	A	N	N	N	N	N		N		N	N	N	N	N	N	A	C	A	A	A	A	A	A	A	A	
FERRIC SULFATE (Aqueous)				N		A	A	A		A	A		A	A					A	A	A	A	A	A		N			A		A	A		A	A	A	A	A	
FLOUROLUBE					A		A	A	A	A	A	A	A	A				A	A	A	A	A	A	A		A			A	A	A	C	A	C	A	A	A		
FORMALDEHYDE (Methanol)			A	A	A		A	A	C	C	A	C	A	A				A	A	A	A	A	A	A		A			A		A	A		A	A	A	A	A	
FORMALIN		40		A		A		A	A	A	A	A	A	A				A	A	A	A	A	A	A					A		A	A		A	A	A	A	A	
FREON 11 & REFRIG. OIL			A	A		A	A		A	A	A	A	A	A				A	A	A	A	A	A	A					A	C	N	A	A	N	C	A	A	A	
FREON 12 & REFRIG. OIL			A	A		A	A		A	A	A	A	A	A				A	A	A	A	A	A	A					A	A	C	A	A	N	C	A	A	A	
FREON 22 & REFRIG. OIL			A	A		A	A		A	A	A	A	A	A				A	A	A	A	A	A	A					A	N	C	A	C	N	C	A	A	A	
FREON 113 & REFRIG. OIL			A	A		A	A		A	A	A	A	A	A				A	A	A	A	A	A	A					A	A	A	A	C	N	C	A	A	A	
FREON 114 & REFRIG. OIL			A	A		A	A		A	A	A	A	A	A				A	A	A	A	A	A	A					A	A	A	A	A				A	A	A
FREON 121 & REFRIG. OIL				A		A	A		A	A	A	A	A	A				A	A	A	A	A	A	A					A								A	A	A
FREONS, LIQUID			A	A		A	A		A	A	A	A	A	A				A	A	A	A	A	A	A					A								A	A	A
FRUIT JUICES				A		A	A		A	A	A	A	A	A				N	A	A	A	A	A	A					A	A	A	A					A	A	A



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)											SECONDARY SEALS														
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#*	GFT*	CER*	SIL CAR	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NTR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**	
FUEL OIL			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	N		A	A	C	A	A	N	A	A	A	A	A
FUEL OIL ACIDIC				A	A	A	A	A	A	A	A	A	A	A	N	A	N	A	A	A	A	A	A	A	A	N	N		A	A	C	A	A	N	A	A	A	A	A
FUEL OIL, *8			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	A	A	C	N	A	A	N	A	A	A	A	A
FURFURAL			A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A	A			A	A	N	N	A	N	C	N	A	A	A	A
GAS OIL			A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A	A			A	A	A	A	A	N	A	A	A	A	A	A
GASOLINE AROMATIC				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	N	A	A	N	A	A	N	A	A	A	A	A	
GASOLINE 100 & 130 Oct.			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	N	A	A	A	A	
GASOLINE HI-Test w/Mercaptan, H'S				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	N	A	A	N	A	A	N	A	A	A	A	A	
GELATIN			N	A	N	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A	A	N	N	N	A	A	A	A	A	A	A	A	A	A	
GLAUBERS SALT (Aqueous) (Sodium Sulfate)			A	A	A	N	A	A	A	A	A	A	A	A		N	A	A	A	A	A	A	A	A	N			A	N	N	C	A	A	C	A	A	A	A	
GLUCOSE			A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	
GLUE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
GLUE SIZING			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	

Acceptable
 Use with caution Corrosion > .0210 IPY detrimental to part
 Not recommended
 Unknown

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer. Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

GLYCERINE (Glycerol)			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
GLYCOLS			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A		
GREEN SULPHATE LIQUOR			N	N	N		A	A	A	A	A	A	A		N		A	A	A	A	A	A	A	A	N	N	N		C	C	A	A	A	A	A	A	A	A	
GRAPE JUICE			N	N	N	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	N	A	A	A	A		A	A	A	A	A	
GREASE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	N	A	A	A	A	A	
HELIUM											A			A															A	A	A	A	A	A	A	A	A	A	
HEPTANE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			A	A	A	C	A	A	N	A	A	A	A	A
HEXACHLORO ACETONE											A	A	A	A																							A	A	A
HEXANE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			A	A	C	A	A	N	A	A	A	A	A	
HEXENE (Butylethylene)											A			A															C	C	A	A	N	A	A	A	A	A	
HEXONE			N	A	N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	N	N	A	N	N	A	N	A	N	A	A	A	
HEXYL ALCOHOL (Hexanol)											A		A	A		A									A				A	C	A	A	N	A	A	A	A	A	
HOPS											A																												
HYDRAZINE							A				A			A	N				A	A	A				A	N	N		C	C	A		A		A	A	A	A	
HYDROGEN FLUORIDE (H F Acid) Anhydrous	Cold	<65	N	N	N	N	N	N	A	C	C	A	C	N	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
HYDROGEN FLUORIDE (H F Acid) Anhydrous	Hot	All	N	N	N	N	N	N	A		C	A		N	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
HYDROGEN FLUORIDE (H F Acid) Anhydrous	Cold	>65	N	N	N	N	N	N	A	C	C	A	C	N	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
HYDROGEN PEROXIDE	Cold	>90	N	C	C	A	A	A	A		A		A	A	N	A	N	A	A	A				A	A	A	N	N	C	A	N	N	A	A	N	N	A	A	
HYDROGEN SULFIDE (Dry)	Cold	>90	A	C	N		A	A		C	A	C	C	A	A	N		N	A	A	A	C		A			N	N	N		A	A	C	N	A	N	A	A	A
HYDROGEN SULFIDE (Dry)	Hot		A	C	N		A	A		C	A	C	C	A	A	N		N	A	A	A	C		A			N	N	N		N	C	C	N	A	N	A	A	A



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS										STATIONARY OR ROTARY RING (FACE)													SECONDARY SEALS													
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#†	GFT*	CER*	SIL CAR	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NTR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**	
LEAD NITRATE											A	A	A																		A	A	A		A		A	A	A
LEAD SULPHAMATE											A	A																			C	A	A	A	A	A	A	A	A
LIME BLEACH											A	A																		A	C	A	A	A	A	A	A	A	A
LIME WATER (Calcium Hydroxide)			A	A	C	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	C	A	A	A	A	A	A	A	A	A	A	A
LINDOL						A	A		A	A	A	A	A	A		A		A	A	A		A	A	A				A	N	N	A	C	A	C	A	A	A	A	A
LINSEED OIL			C	A	C	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	N	A	A	A	A	A	A
LIQUID OXYGEN				A	A	A	A	A	A	A	C	A		A		A	A	A	A	A	A	A	A	A			A	A	C	A	C	A	A	A	A	A	A	A	A
LIQUID PETROLEUM GAS (LPG)			A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	A	A	A	A	A	A	A	N	N	A	A	A	C	A	A	N	A	A	A	A	A	A
LIQUOR, LIME											A																												

A Acceptable
 C Use with caution Corrosion > .0210 IPY detrimental to part
 N Not recommended
 Unknow

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer. Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

LIQUOR, PULP MILL			N	N	N	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	N	A	C	C	A	A	C	A	A	A	A	A		
LIQUOR, STEEP											A																												A	
LIQUOR, SULPHATE											A																												A	
LITHIUM BROMIDE BRINE				A			A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A				A		A	A						A	A	A	
LITHIUM CHLORIDE (Aqueous)						A	A	A	A	A	A	A	A	A		A		A	A	A	A	A	A	A			A			A							A	A	A	
LYE, CAUSTIC											A																												A	
LYE, SALTY											A																												A	
MAGNESIUM CHLORIDE (Bischofite)			N	C	N	C	A	A	C	A	A	A	A	A	N	C	A	N	N	A	A	C	A	C	N	N	N	C	A	A	A	A	A	A	A	A	A	A	A	
MAGNESIUM HYDROXIDE (Brucite)			A	A	C	A	A	C	A	A	A	A	A	A	N	A	A	A	A	A	A	C	A	A	N	N	C	A	C	C	A	A	A	A	A	A	A	A	A	
MAGNESIUM NITRATE					A	A	A	A	A	A	C	A	A	A	N	A	A	C	A	A	A	A	A	A	N	N	A	A	A		C						A	A	A	
MAGNESIUM SULFATE (Epsom Salt) (Aqueous)	Hot	50	N	A	C	C	C	A		A	C	A	A	A	N	C	C	C	N	A	A		C	C	N	N	C	C	A	A	A	A	A	A	A	A	A	A		
MAGNESIUM SULFATE (Aqueous)											A	A		A															A	A	A	A	A	A	A	A	A	A	A	
MALEIC ANHYDRIDE			N			A	A			A	A	A	A	A		A		A		A		A	A				A	N	N	A	N	N	A	A	A	A	A	A	A	
MALEIC HYDRAZIDE						A				A	A	A	A	A				A					A								A							A	A	A
MAHGANESE CHLORIDE (Aqueous)						A				A		A	A	A		A						A	A								A							A	A	A
MANGANESE SULFATE (Aqueous)						A	A			A	A	A	A	A		A		A	A	A		A	A				A				A							A	A	A
MARSH GAS (Methane)			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	A	C	A	A	N	A	A	A	A	A	
MARSH, Anti-Biotic Fermentation, No Solvent			N	A	N	A	A	A	A	A	A	A	A	A	N	A		A	A	A	A	A	A	A	A	N	N	N	A	A								A	A	A
MARSH, WITH Solvent			N		N	A	A	A	A	A	A	A	A	A	N	A		A	A	A	A	A	A	A	A	N	N	N	A	N								A	A	A
MAYONNAISE			N		N	A	A	A	A	A	A	A	A	A	N	A		A	A	A	A	A	A	A	A	N	N	N	A	A	N	A	A					A	A	A
MEA (Monoethanolamine)			A			A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N		A	N	N	A	N	C	N	A	A	A	A	
MEA-With Copper Sulfate						A	A			A	A	A	A	A	N	A	A	A	A	A							A	N	N	A	N	C	N	A	A	A	A	A	A	
MELAMINE RESINS						A				A	A	A	A	A								A	A					A			A							A	A	A
MERCAPTAN						A				A	A	A	A	A								A	A					A										A	A	A



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS										STATIONARY OR ROTARY RING (FACE)										SECONDARY SEALS																
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#†	GTF*	CER*	SIL CAR	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NTR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**	
MINE WATER	20		N	N	N		A	C	A	A	A	A	A	A	A	N		A	A	A	A	C	A	A		N	N	N		N	N	A	A	N	A	A	A	A	A
MISCELLA 20% SOYA OIL						A	A		A	A	A	A	A	A	A		A		A	A	A		A	A	A				A	A	A	A		A	A	A	A	A	A
MOLASSES				A		A	A	A	A	A	A	A	A	A	A		A		A	A	A	A	A	A	A				A		A	A	A		A	A	A	A	A
MONOCHLOROBENZENE						A			A	A	A	A	A	A	A				A	A	A		A	A					N	N	A	A	N	A	A	A	A	A	
MONOETHANOLAMINE (MEA)			A			A	A	A	A	A	A	A	A	A	A	N	A		A	A	A	A	A	A	A	N	N		A	N	N	A	N	C	N	A	A	A	

Acceptable
 Use with caution Corrosion > .0210 IPY detrimental to part
 Not recommended
 Unknown

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer . Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

MUSTARD						A		A	A	A	N	A	A	A				N	A	A		A	A							N					A	A	A	
NAPTHA			A	A	A	A	A	A	A		A	A	A	A	N	A	A	A	A	A	A	A	A	A	C	C	A	A	C	N	A	A	N	A	A	A	A	
NAPTHA CRUDE			N	A	A	A	A	A	C		A	A	A	A	N	A		A	A	A	A	A	A	A	C	C	A	A	C	N	A	A	N	A	A	A	A	
NAPTHALENE						A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	A	A	N	N	A	A	N	A	A	A	A	
NATURAL GAS LIQUID			A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	A	A	A	N	A	A	N	A	A	A	A	
NEATSFOOT OIL			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	N	A	A	C	A	A	A	A
NICKEL ACETATE											A	A	A	A															C	C	A	N	A	N	A	A	A	
NICKEL CHLORIDE	Hot	<30	N	C		A	C	A	A	A	A	A	A	A				A	A	A	C	A	A					A	A	A	A	A	A	A	A	A		
NICKEL COBALT SULFATE, 5% H ₂ SO ₄	95					N	A				A	A	A	A						A	A		N							A				A	A	A		
NICKEL SALTS											A	A		A															A	A	A	A	A	A	A	A	A	
NICO TINE SULFATE			N	C		A	C	A	N	C	A	A	A	A				A	A	A	C	A	A					A	A	A	A	A	A	A	A	A		
NITROCHLOROFORM						A			A		A	A	A	A				A		A			A							A					A	A	A	
NITAOBENZENE						A		A	A		A	A	A	A									A							A					A	A	A	
NITROBENZINE			A	A		A	A	A	A		A	A	A	A			A	A	A	A	A	A	A	A				N	N	A	C	N	C	A	A	A		
NITROETHANE			A	A		A	A	A	A		A	A	A	A			A	A	A	A	A	A	A	A				N	N	A	A	C	A	A	A	A		
NITROMETHANE						A					A	A	A	A				A		A			A					N	C	A		C		A	A	A		
NITROPROPANE						A					A	A	A	A				A		A			A					N	C	A		C		A	A	A		
NITROGEN GAS						A					A	A	A	A				A		A			A					N	N	A	N	C		A	A	A		
OAKITE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A		
OIL & AMMONIA											A																			A						A		
OIL ANIMAL, BONE			A			A	A		A	A	A	A	A	A			A		A	A	A		A	A	A					A					A	A	A	
OIL & ANIMAL, COD			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	C	A	A	A	
OIL ANIMAL, BONE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	C	A	A	A	
OIL, ANIMAL, LARD			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	C	A	A	A	
OIL, ANIMAL, MENHADEN			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	C	A	A	A	
OIL, ANIMAL, NEATSFOOT			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	N	A	A	C	A	A	A	
OIL, ANIMAL, SPERM			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	C	A	A	A	
OIL, ANIMAL, WHALE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	C	A	A	A	



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS													STATIONARY OR ROTARY RING (FACE)											SECONDARY SEALS													
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#†	GFT*	CER*	SIL CAR#	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NITR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**		
OIL, VUNKER C			A	A	A	C	A	A	A	A	A	A	A	A	A	N	C	A	A	A	A	A	A	A	C	C	C	A	A	C	N	A	A	N	A	A	A	A	A	
OIL, COAL TAR						A	A	A	A	A	A	A	A	A	A		A		A	A	A	A	A	A					A			A					A	A	A	A
OIL, CREOSOTE, SWEET				A		A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A				A			A	A				A	A	A	A	A

A Acceptable
 C Use with caution Corrosion > .0210 IPY detrimental to part
 N Not recommended
 Unknown

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer . Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

PRODUCT	CONDITIONS	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#†	GFT*	CER*	SIL CAR#	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NITR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**
OIL, CRUDE, SWEET	Cold	A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	A	A	A	C	A	A	N	A	A	A	A
OIL, DIESEL, #2D		A	A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, DIESEL, #3D		A	A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A	
OIL, DIESEL, #4D		A	A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A	
OIL, DIESEL, #5D		A	A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A	
OIL, ESSENTIAL		C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, FUEL #1		A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, FUEL #2		A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, FUEL #3		A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, FUEL #5A		A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, FUEL #5B		A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, FUEL #G		A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, INSULATING		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, KEROSENE		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A
OIL, LEAN		A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	A	A	A	C	A	A	N	A	A	A	A
OIL, LINSEED (Raw)		C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, LUBRICATING #8		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, SPEC, #10		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, SPEC, #20		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, SPEC, #30		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A
OIL, LUBRICATING DIESEL #9110		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A
OIL, FED SPEC. #9170		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A
OIL, FED SPEC. #9250		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A
OIL, FED SPEC. #9370		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A
OIL, FED SPEC. #9500		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A
OIL, MINERAL SAE 10		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A
OIL, FED. SPEC. SAE 20		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A
OIL, FED. SPEC. SAE 30		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A
OIL, FED. SPEC. SAE 40		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A
OIL, FED. SPEC. SAE 50		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)											SECONDARY SEALS														
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#*	GFT*	CER*	SIL CARB	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NITR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**	
OIL, FED. SPEC. SAE 60			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A

A Acceptable
 C Use with caution Corrosion > .0210 IPY detrimental to part
 N Not recommended
 U Unknown

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer . Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

OIL, FED. SPEC. SAE 70			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A		
OIL, FED. SPEC,SAE 90			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A	
OIL, FED. SPEC,SAE 140			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A		
OIL, FED. SPEC,SAE 250			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A		
OIL, MINERAL LARD CUTTING, Fed. Spec #1			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A		
OIL, MINERAL LARD CUTTING, Fed. Spec #2			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A		
OIL, NAVY SPEC. NAVY II			C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A		
OIL, QUENCHING			C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A		
OIL, RICH			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	A	A	A	N	A	A	N	A	A	A	A		
OIL, TURBINE LUBE			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	N	A	A	A	A		
OIL, VEGETABLE, CASTOR			C	A	C	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	N	A	A	A	A		
OIL, VEGETABLE, CHINA WOOD			C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	N	A	A	A	A	A		
OIL, VEGETABLE, COCOANUT			C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	N	A	A	A	A	A	A	A	A		
OIL, VEGETABLE, CORN			C	A	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	N	A	A	A	A	A		
OIL, VEGETABLE, COTTONSEED			C	A	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	N	A	A	A	A	A		
OIL, VEGETABLE, LINSEED (Raw)			C	A	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	N	A	A	A	A	A		
OIL, VEGETABLE, OLIVE			C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	C	A	A	A	A	A		
OIL, VEGETABLE, PALM			C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	C	A	A	A	A	A		
OIL, VEGETABLE, PEANUT			C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	N	A	A	A	A	A		
OIL, VEGETABLE, RAPE SEED			C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	A	A	A	A	A	A		
OIL, VEGETABLE, ROSIN			C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	N	A	A	N	A	A	A	A	A		
OIL, VEGETABLE, SESAME			C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A		A	A		A	A	A	A	A		
OIL, VEGETABLE, SOYA BEAN			C	C	C	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	C	C	C	A	A	C	A	A	N	A	A	A	A	A		
OLEFIN, CRUDE						A	A		A	A	A	A	A	A		A		A	A	A		A	A	A			A		A	A						A	A	A		
OLEUMS			N	C	N	N	N	A	N	A	C	A	A	A	N	N	N	N	N	N	A	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
ORTHODICHLORO BENZENE						A		A	A		A	A	A	A				A		A		A	A						N	N	A	A	N	C	A	A	A	A		
OS 45 TYPE IV						A	A		A	A	A	C	A	A	A				C		A		A	A	A				C	A	C	A	N	C	A	A	A	A		
OXYGEN, LIQUID					A	A	A	A	A	A	A	C	A		A	A	A	C	A	A	A	A	A	A			A		C	A	C	A	A	A	A	A	A	A		
PARACYMENE						A		A	A	A	A	A	A	A										A					A		A						A	A	A	
PARAFFIN, LIQUID			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	A	A		A	A	A					A	A	A
PECTIN, LIQUOR						A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A		A		A	A	A					A	A	A



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)											SECONDARY SEALS												
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#†	GFT*	CER*	SIL CAR	BRONZE	TC-C	NF-RES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NTR	NEOP	GRAPH	VITON*‡	E.P.	VIT/ASB	TFE	GFT

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NETHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE RISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

POTASSIUM CYANIDES (Aqueous)			A	N		N	A	A	A	C		A	A	A	A	N	N	A	A		A	A	A	A	N					N	A	A	A	A	A	A	A	A	A	A
POTASSIUM DICHROMATE			A		A		A				C	C	A	A	A	N		A	C	A	A			A		N	N	A	N	A	A	A	C	A	A	A	A	A	A	A
POTASSIUM HYDROXIDE (Aqueous)		<50	N	N	N	A	C	A	A	C	C	A	C	C	A	N	A	N	C	C	A	C	A	C	A	N	N	N	C	C	C	A	N	A	N	A	N	A	C	A
POTASSIUM HYDROXIDE (Aqueous)		>50	N	N	N	A	C	A	A	C	C	A	C	C	A	N	A	N	C	C	A	C	A	C	A	N	N	N	C	C	C	A	N	A	N	A	N	A	C	A
POTASSIUM NITRATE (Aqueous) (Sailpeter)			A	A			A	A	A	N	A	A	C	C	A	N		N	C		A	A	A	A		N	N			A	A	C	A	A	A	A	A	A	A	
POTASSIUM PERFLUORO ACETATE							A			A		A		A	A									A								A					A		A	
POTASSIUM PERMANGANATE			C	A		N	A			N	A	A	N	A	A				A	A	A			A	N						N	A					A	N	A	
POTASSIUM PHOSPHATE (DI, TRI)							A				A	A		A	A				A	A	A			A								A					A		A	
POTASSIUM SULFATE (Aqueous) (Arcanite)			A	A			A			A	A		A	A	A				A	A			A	A						A	A	A	A	A	A	A	A	A	A	
PROPANE (Dimethylmethane)			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	N	C	A	A	A	A	A	A	N	N	A	A	A	C	C	A	N	A	A	A	A	A	
PROPIOLACTONE, beta		20				A	A					A	A	A	A		A		A					A	A						A					A	A	A		
PROPIONALDEHYDE							A			A		A		A	A				A	A	A											A					A		A	
PROPYLENE (Propane)			A	A	N	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	N	A	N	N	A	A	N	A	A	A	A	A	
PROPYLENE GLYCOL			A	A	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	A	A	N	N	A	A	N	A	A	A	A	A	
PROPYLENE OXIDE							A			A		A	A	A	A				A		A								N	N	A	N	C	N	A	A	A	A		
PULP STOCK												A																				A						A		
PYRIDINE							A			A	A	A	A	A	A				A		A		A	A					N	N	A	N	C	N	A	A	A	A		
RAFFINATE							A			A	A		A	A	A				A		A		A	A					A		A					A	A	A		
ROSIN		38	C	N	A	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	N	N	A	A	A					A	A	A	A		
SAL AMMONIAC (Ammonium Chloride)			N	N	N		A	A	C	A	A	A	A	A	A	N		A	C	C	C	C	C	A		N	N	N		A	A	A	A	A	A	A	A	A		
SALT CAKE			A	A			A	A	C	A	A	A	A	A	A				A	A		A	A	C	A				A	A	A	A	A	A	A	A	A	A		
SALT CAKE (Aqueous)			A	A			A	A	C	A	A	A	A	A	A				A	A		A	A	C	A				A	A	A	A	A	A	A	A	A	A		
SALT WATER			N	C	N	C	C	A	A	A	A	A	A	A	A	N	A	A	C	C	A	A	A	C	C	N	N	N	N	A	A	A	A	A	A	A	A	A		
SEA WATER			N	A	C	C	A	A	A	A	A	A	A	A	A	N	A	A	C	A	A	A	A	A	C	N	N	C	N	A	A	A	A	A	A	A	A	A		
SEWAGE			N	A	C	A	C	A	A	A	A	A	A	A	A	A	C	C	C	A	A	A	C	A	C	C	C	C	A	C	A	A	A	A	A	A	A	A		
SHELLAC			A	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			A							A		
SILICONE OILS AND GREASES						A	A	A	A	A	A		A	A	A	A				A	A	A	A	A	A			A	A	A	A	N	A	N	A	A	A			
SILVER NITRATE		10					A			A		A	A	A	A				A		A			A					C	A	A	A	A	A	A	A	A	A		
SKYDROL 500							A	A	A	A	A	A	A	A	A				A	A	A	A	A	A	A			A	N	N	A	N	A	N	A	A	A	A		
SKYDROL 7000							A	A	A	A	A	A	A	A	A				A	A	A	A	A	A	A			A	N	N	A	C	A	C	A	A	A	A		
SLOP, BREWERY												A		A																	A							A		

A Acceptable	C Use with caution Corrosion > .0210 IPY detrimental to part	N Not recommended	□ Unknown	* Designates standard face material	** Registered trademark E.I. DuPont
				† Consult Manufacturer. Various grades available	## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)														SECONDARY SEALS														
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#*	GFT*	CER*	SIL CAR	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NITR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**				
SODIUM SULFITE (Aqueous)			C			A	A	C	N	A	N	A	A	A			A	N	A	A	A	A	A	A		C				A	A	N	A	A	A	A	A	A	A	A		
SODIUM TETRABORATE			A	N		A	A	A	A	A	A			A	A	N	A	A	A	A	A	A	A	A	A	N	N		A	C	N	A	A	A	A	A	A	A	A	A		
SODIUM THIOSULFATE			A	N		A	A	A	A	A	A	A	A	A				A		A		A	A	A			N			C	N	A	A	A	A	A	A	A	A	A		
SOLVASOL 1, 2 & 3						A	A	A	A	A	A	A	A	A			A	A	A	A	A	A	A	A	A				A	C	C	A	A	N	A	A	A	A	A	A		
SOLVASOL 73, 74						A	A	A	A	A	A	A	A	A			A	A	A	A	A	A	A	A	A				A	C	C	A	A	N	A	A	A	A	A	A		
SORBITOL						A		A	A		A	A	A	A					A		A		A	A								A					A	A	A	A		
STARCH			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	A	A	A	A	A	A	A	A	A	A		
STEAM	>120		A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	C	C	A	A	N	N	A	N	A	N	A	A	A	A	A		
STOODARD SOLVENT			A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	N	A	A	A	A	A	A		
STRONTIUM NITRATE (Aqueous)											A			A																		A							A			
STYRENE (Monomer) (Vinylbenzene)			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	N	A	C	N	C	A	A	A	A	A	A		
SUGAR (Aqueous)			A	A	A	A	A	A	A	A	N	A	A	A	C	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	N	A	A	A	A	A	A	A	A		
SULFATE LIQUORS				N		A	A	A	A	A	A			A	A	A		A	A	A		A	A	A			N		A			A								A		
SULFUR IN WATER											C			A																		C								A		
SULFUR CHLORIDE (Aqueous)	Cold			N		A			A		A	A	A	A	N		A							A		N			N	N	A	A	N	A	A	A	A	A	A	A		
SULFUR DIOXIDE (Dry)			A	A	A	A	A	A	N	A	C	A	A	A	A	C	A	C	A	A	N	A	A	A			A	C	N	N	C	A	A	A	A	A	A	A	A	A	A	
SULFUR DIOXIDE (Wet)			N	N	N	N	N	C	N	N	A	A	A	A	N	N	N	N	N	N	A	C	N	N	N	N	N	N	N	N	C	A	A	A	A	A	A	A	A	A		
SULFUR DIOXIDE & WATER			N	N	N	N	N	C	N	N	A	A	A	A	N	N	N	N	N	N	A	C	N	N	N	N	N	N	N	N	C	A	A	A	A	A	A	A	A	A		
SULFUR, MOLTEN			A	N	A	A	A	N	N	N	C	A	A	A	N	A	N	A	A	A	A	N	A	A	N	N	A	A	N	N	C	N	N	N	A	A	A	A	A	A		
SULFUR TRIOXIDE (Dry)			A	A		A		N	A		A	A	A	A		A							N	A					N	N	A	A	C	A	A	A	A	A	A	A		
SULFUR TRIOXIDE (Wet)						A		N	A		A	A	A	A		A							N	A					N	N	A	A	C	A	A	A	A	A	A	A		
SULFATE OF LIME											A			A																		A								A		
SULFIDE OF HYDROGEN											A			A																		A								A		
SULFIDE OF SODIUM	Hot										A			A																	A									A		
SULFIDE OF SODIUM	Cold										A			A																	A									A		
SULFITE PULP											A			A																		A									A	
SULPHOLIGNIS SALTS		Cone									A			A																												
SULPHOLIGNIS SALTS		Dilute									A	A		A														A														
SULPHONATED FATTY ALCOHOL						A	A		A	A	A	A	A	A		A		A	A	A		A	A	A				A	A		A	A					A	A	A	A	A	
SULPHONATED VEGETABLES OILS						A	A		A	A	A	A	A	A		A		A	A	A		A	A	A				A	A		A	A					A	A	A	A	A	
SULPHURIC CHLOROHYDRIN			N		N	N	N	N	N	A		A	N		A		N	N	N	N	A	N	N	N		N	N	N	N	N	A	N	N	N	N	A	A	A	A	A		

<input type="checkbox"/> A Acceptable	<input type="checkbox"/> C Use with caution Corrosion >.0210 IPY detrimental to part	<input type="checkbox"/> N Not recommended	<input type="checkbox"/> Unknown	* Designates standard face material	** Registered trademark E.I. DuPont
				† Consult Manufacturer . Various grades available	## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

SYRUP, (Sucrose Soin)						A	A		A	A	A	A	A	A		A		A	A	A	A	A	A	A				A	A	C	A	A	A	A	A	A	A	A	A	
TALL OIL	95		A			C			C	A	A	A	A	A					C	C	A							C									A	A	A	A



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)													SECONDARY SEALS																
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#*	GFT*	CER*	SIL CARB	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NITR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**					
TALLOW			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
TANKING LIQUORS			N		N		A		A	A	A	A	A	A	A	N		A	A	A	A		A	A		N	N	N			A	C	A	A	A	A	A	A	A	A	A		
TAR & AMMONIA w/WATER			A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	C	C	A	A	C	N	A	A	N	A	A	A	A	A	A		
TAR, PINE			A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	C	C	A	A	C	A	A	N	A	N	A	A	A	A	A		
TAR, BITUMINOUS			A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A	C	C	A	A	C	N	A	A	N	A	A	A	A	A	A		
TETRACHLOROETHANE							A			A	A	A	A	A					A	A	A										N	N	A	A	N	A	A	A	A	A	A		
TETRACHLOROETHYLENE				A	A		A	A	A			A	A	A	A	N		A	A	A	A	A	A	A		N	N	A		N	N	A	A	N	A	A	A	A	A	A	A		
TETRA ETHYL LEAD							A		A	A			A	A	A	A				A	A	A								C	C	A	A	N	A	A	A	A	A	A	A		
TETRAHYDROFURAN							A			A			A	A	A	A				A	A	A								N	N	A		C			A	A	A	A	A		
TETRAPHENYL							A			A			A	A	A	A				A	A	A										A						A	A	A	A		
THERMINOL #1, 2 & 3				A		A	A		A	A	A			A	A	A	A		A	A	A	A										A			A	A		A	A	A	A	A	
TITANIUM TETRACHLORIDE							A		A	A			A	A	A	A				A	A	A							A	C	N	A	A	N	A	A	A	A	A	A	A	A	
TOLUENE (Toluol) (Methylbenzenel)			A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	C	C	A	A	N	N	A	A	N	A	A	A	A	A	A	A	A	
TOMATO PULP			N		C	A	A	A	A	A	A	A	A	A	A	N	A	C	A	A	A	A	A	A	A	N	N	C	A	A		A	A	A		A	A	A	A	A	A	A	
TOXAPHENE						A		A	A	A	A					A				A	A	A										A		A	A		A	A	A	A	A	A	
TRICHLOROETHANE (Dry)							A		A	A	A									A	A	A								N	N	A	A	N	A	A	A	A	A	A	A	A	
TRICHLOROETHANE (Wet)									A	A	A										A									N	N	A	A	N	A	A	A	A	A	A	A	A	
TRICHLOROETHYLENE (Dry)			A	A	A	A	A	A	A	A	A									A	A	A	A	A	A	A	A	A	A	N	N	A	A	N	A	A	A	A	A	A	A	A	
TRICHLOROETHYLENE (Wet)			A	A	A	A	A	A	A	A	A									A	A	A	A	A	A	A	A	A	A	N	N	A	A	N	A	A	A	A	A	A	A	A	
TRICHLORONITROMETHANE							A		A	A										A		A										A							A	A	A	A	A
TRICRESYL PHOSPHATE							A		A	A	A									A	A	A								N	N	A	C	A	C	A	C	A	A	A	A	A	
TRIETHYLAMINE			A				A		A	A	A									A	A	A								A		A	A		A	A		A	A	A	A	A	A
TRIFLUOROVINYLCHLORIDE							A		A	A	A										A	A	A									A								A	A	A	A
TRISODIUM PHOSPHATE			A				A	A	A	A	A									A	A	A	A	A	A	A					A		A	A					A	A	A	A	A
TURPENTINE			A	A	A	A	A	A	A	A	A									A	A	A	A	A	A	A					A	N	A	A	N	A	A	A	A	A	A	A	A
UREA (Anhydrous) (Carbamide)	All	100	A				A	A	A											A	A	A	A	A						N		A	A					A	A	A	A	A	A
UREA (Wet) (Carbamide)	All	All	N				A	A													A	A	A	A						N		A	A						A	A	A	A	A
UREA & PHENOLIC RESINS																																	A							A	A	A	A

A Acceptable
 C Use with caution Corrosion > .0210 IPY detrimental to part
 N Not recommended
 Unknown

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer . Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

URINE							A	A		A	A	A	A						A	A	A	A	A	A					A	A	A	A					A	A	A	A	A	A		
VARNISH, AROMATIC				A			A	A	A	A	A									A	A	A	A	A	A	A				A	N	N	A	A	N	A	A	A	A	A	A	A	A	
VARNISH, NON-AROMATIC				A			A	A	A	A	A									A	A	A	A	A	A	A				A	C	N	A	A	N	A	A	A	A	A	A	A	A	A
VEGETABLE JUICES			N	A	C		A	A	A	A	A									A	A	A	A	A	A	A	N	N	C	A		A	A							A	A	A	A	A



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)											SECONDARY SEALS																	
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB#†	GFT*	CER*	SIL CAR	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NTR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**				
VETROCOKE SOLUTION (Wet)				N			A	A	N	A	A	A	A	A	N			A	A	A	A	N	A																			
VINEGAR				C		N	A	A	A	A	A	A	A	A	N	N	A	A	A	A	A	A	A	N	N	N		N		C	C		A	A	A	A	A	A	A	A	A	
VINYL CHLORIDE (Chloroethene)						A	A		A	A	A	A	A	A			A	A	A	A	A	A	A	A					A													
VINYLDINE CHLORIDE						A	A		A	A	A	A	A	A			A	A	A	A	A	A	A	A					A													
VINYL PYRIDINE						A	A		A	A	A	A	A	A			A	A	A	A	A	A	A	A					A													
VITRIOLE, WHITE						A			A	A	A	C	A	A	A				C	A	A		A	A					A	A	C	A	A	A	A	A	A	A	A	A		
WATER, BOILER FEED				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	A	A	A	C	A	A	A	A	A	A	A	A	A		
WATER, BRACKISH				N	N	N		A	C	A	A	A	A	A	N		A	A	A	A	C	A	A		N	N	N		N	N	A	A	N	A	A	A	A	A	A	A		
WATER, CLEAN UNTREATED				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A		
WATER, COCLING TOWER				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A		
WATER, CONDENSATE				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A		
WATER, DISTILLED				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A		
WATER FLOOD SERVICE							A		A	A	A	A	A	A				C	C	A	C	A	A					A	A	A	A											
WATER, FRESH				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A		
WATER, HEAVY					A		A	A	A	A	A	A	A	A			A	A	A	A	A	A	A	A	A			A	A	N	A	A	A	A	A	A	A	A	A	A		
WATER, HOT	<135			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	C	A	A	A	A	A	A	A	A	A	A		
WATER, MINE				N	N	N		A	C	A	A	A	A	A	N		A	A	A	A	C	A	A		N	N	N		N	N	A	A	N	A	A	A	A	A	A	A		
WATER, RIVER				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A		
WATER, SALT & SEA, SOLUTION				N	C	N	C	C	C	A	A	A	A	A	N	A	C	C	A	C	A	C	A	C	C	N	N	N	N	A	A	A	A	A	A	A	A	A	A	A		
WATER, SOAPY	<100			N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A	A	A		
WATER, w/SOL OIL				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A													
WHISKEY				C	A	C	A	A	A	A	A	A	A	A	N	A	C	A	A	A	A	A	A	A	A	N	N	C	A	A	A	A	A	A	A	A	A	A	A	A		
WHITE LIQUOR				N	N	N		A	A	A	A	A	A	A	N		A	A	A	A	A	A	A	A		N	N	N		C	C	A	A	C	A	A	A	A	A	A		
WHITE WATER, PAPER MILL				N	N	N		A	A	A	A	A	A	A	N		A	A	A	A	A	A	A	A		N	N	N		C	C	A	A	C	A	A	A	A	A	A		
WINE				C	A	C	A	A	A	A	A	A	A	A	N	A	C	A	A	A	A	A	A	A		N	N	C	A	A	A	A	A	A	A	A	A	A	A	A		
WOOD PULP (Stock)												A																														
WOOD VINEGAR						N	A		A	A		A	A	A		N	A	A	A	A								N		N	N	A	N	C	N	A	A	A	A			

Acceptable
 Use with caution Corrosion > .0210 IPY detrimental to part
 Not recommended
 Unknown

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer . Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation

NEITHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.

WORT (Beer Wort)				N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	N	A	A	A	A	A	A	A	A	A	A	A	A	A			
XYLENE (Dimethylbenzene)				C	A	A	A	A	A	A	A	A	A	A	N	A	A	A	A	A	A	A	A	A	A	N	N	A	A	N	A	A	A	A	A	A	A	A	A			
YEAST												A																														
ZEOLITE TREAED WATER				C	N	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	N	C	A	A	A	A	A	A	A	A	A	A	A	A	A		
ZINC CYANIDE							A	A	A	A	A	A	A	A			A	A	A	A	A	A	A	A					A	A	A	A										
ZINC CHLORIDE (Wet)				N	C	N		N	C	A	C	A	A	A	N		N	N	N	A	C	A	N		N	N	N		A	A	C	A	A	A	A	A	A	A	A			



MECHANICAL SEAL MATERIALS

SELECTION GUIDE

PRODUCT	CONDITIONS		METAL PARTS											STATIONARY OR ROTARY RING (FACE)														SECONDARY SEALS												
	°C	%	STEEL	BRONZE	416SS	TITAN	316SS	#20	MONEL	HAST B#	HAST C	CARB**	GFT*	CER*	SIL CAR	BRONZE	TC-C	NHRES*	316SS/ST	316SS/SA	STOODY	#20/STEL	COLM	TC-N*	TITA CA	C.I.	431/440SS	316SS/CH	316SS/TC	NITR	NEOP	GRAPH	VITON**	E.P.	VIT/ASB	TFE	GFT	KAL**		
ZINC CHLORIDE (Dry)			N	C	N		N	C	A	C	A	C	A	A	A	N		N	N	N	A	C	A	N		N	N	N		A	A	C	A	A	A	A	A	A	A	A
ZINC NITRATE							A	A	A	A	A	A	A	A	A			A	A	A	A	A	A										A	A	A	A	A	A	A	A
ZINC PHOSPHATE										A	A	A	A	A	A																						A	A	A	A
ZINC SULFATE			N	A	C		A	A	A	A	A	A	A	A	N		A	A	A	A	A	A	A		A	A	C		A	A	A	A	A	A	A	A	A	A	A	A

A Acceptable
 C Use with caution Corrosion > .0210 IPY detrimental to part
 N Not recommended
 Unknow

* Designates standard face material ** Registered trademark E.I. DuPont
 † Consult Manufacturer. Various grades available ## Registered trademark of Cabot Stellite Division

CAUTION: The above charts are a guide to the selection of mechanical seal components Prior to actual use. It is suggested that compatibility tests be run and that the seal manufacture be contacted for their recommendation
 NETHER THE ASSOCIATION NOR ANY OF ITS MEMBERS MAKES ANY WARRANTY CONCERNING THE INFORMATION OR ANY STATEMENT SET FORTH IN THE HANDBOOK, AND BOTH EXPRESSLY DISCLAIM LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARISING OUT OF DAMAGE TO EQUIPMENT INJURY TO PERSONS OF PRODUCTS OR ANY OTHER HARMFUL CONSEQUENCES RESULTING FROM THE USE OF THE INFORMATION OR RELIANCE ON ANY STATEMENT SET FORTH IN THE HANDBOOK.