

James Walker[®]

CNAF X

Chemical Compatibility Guide

Issue One



Chemical Compatibility Guide

Chieftain® X, Centurion® X, and Sentinel® X compressed non asbestos fibre sheet gasket materials

The following information is issued as a guide only. All media are taken to be at ambient ('room') temperature other than molten alkali metals, which are at their respective melting points. Consulting a James Walker sales or technical representative is always recommended (see back cover for global contact details).

Recommended
 Please consult James Walker
 Not recommended

Medium	Chieftain® X	Centurion® X	Sentinel® X
STEAM (SATURATED TO 10 BAR)	Recommended	Recommended	Recommended
STEAM CONDENSATE	Recommended	Recommended	Recommended
WATER	Recommended	Recommended	Recommended
AIR	Recommended	Recommended	Recommended
ACETIC ACID	Recommended	Recommended	Consult
ACETONE	Recommended	Recommended	Recommended
ACETYLENE	Recommended	Recommended	Recommended
ADIPIC ACID	Recommended	Recommended	Recommended
ALUMINIUM CHLORIDE	Recommended	Recommended	Not recommended
AMMONIA, (ANHYDROUS, DRY)	Recommended	Recommended	Recommended
AMMONIA (WET)	Recommended	Recommended	Not recommended
AMMONIUM CHLORIDE	Recommended	Recommended	Not recommended
AMMONIUM HYDROXIDE	Recommended	Recommended	Consult
ANILINE	Consult	Consult	Consult
BENZENE	Recommended	Recommended	Recommended
BITUMEN & HEAVY BOTTOMS	Recommended	Recommended	Recommended
BLACK LIQUOR	Recommended	Recommended	Not recommended
BLEACH SOLUTIONS	Consult	Consult	Not recommended
BOILER FEED WATER	Recommended	Recommended	Recommended
BRINE	Recommended	Recommended	Recommended

Medium	Chieftain® X	Centurion® X	Sentinel® X
BROMINE	Not recommended	Not recommended	Not recommended
BUNKER FUEL			
BUTANE			
CALCIUM CHLORIDE			
CALCIUM HYDROXIDE			
CALCIUM HYPOCHLORITE			Not recommended
CARBON DIOXIDE			
CARBON DISULPHIDE	Not recommended	Not recommended	Not recommended
CARBON TETRACHLORIDE			Not recommended
CHLORINE (DRY)			
CHLORINE (WET)	Consult	Not recommended	Not recommended
CHROMIC ACID	Not recommended	Not recommended	Not recommended
CREOSOTE			Consult
DIESEL OIL			
DIETHYL ETHER			
DOWTHERM®			Not recommended
ETHANE			
ETHANOLAMINES			
ETHER			
ETHYL ALCOHOL (ETHANOL)			
ETHYLAMINE			
ETHYLENE			
ETHYLENE GLYCOL			Not recommended
ETHYLENE OXIDE	Not recommended	Not recommended	Not recommended
FERRIC CHLORIDE (WET)	Not recommended	Not recommended	Not recommended
FLUORINE (GAS & LIQUID)	Not recommended	Not recommended	Not recommended
FORMALDEHYDE			
FORMIC ACID			Consult
GASOLINE (PETROL)			
GREEN LIQUOR			Not recommended
HEAVY OILS			
HYDROBROMIC ACID	Not recommended	Not recommended	Not recommended
HYDROCHLORIC ACID	Not recommended	Not recommended	Not recommended

Medium	Chieftain® X	Centurion® X	Sentinel® X
HYDROFLUORIC ACID	Not recommended	Not recommended	Not recommended
HYDROGEN CHLORIDE GAS (DRY)			Not recommended
HYDROGEN PEROXIDE (<10%)		Consult	Consult
HYDROGEN SULPHIDE			Not recommended
ISOPROPYL ALCOHOL			
KEROSENE			
LINSEED OIL			
LIQUID PETROLEUM GAS (LPG)			
LYE (60%)			Not recommended
METHANE			
METHYL ALCOHOL (METHANOL)			
METHYL CHLORIDE			
METHYL ETHYL KETONE (BUTANONE)			
METHYL TERTIARY BUTYL ETHER (MTBE)			
METHYLATED SPIRITS			
METHYLENE CHLORIDE	Consult	Not recommended	Not recommended
MINERAL OILS			
NAPHTHA			
NATURAL GAS			
NITRIC ACID	Not recommended	Not recommended	Not recommended
NITROGEN			
OCTANE			
OLEUM	Not recommended	Not recommended	Not recommended
OXALIC ACID			Not recommended
OXYGEN	Not recommended	Not recommended	Not recommended
PERCHLOROETHYLENE			
PHENOLS	Consult	Not recommended	Not recommended
PHOSPHORIC ACID (50%)	Consult	Not recommended	Not recommended
POTASSIUM DICHROMATE (10%)			
POTASSIUM HYDROXIDE (<50%, CAUSTIC POTASH)	Consult	Consult	Not recommended
PROPANE			
PYRIDINE	Consult	Not recommended	Not recommended
RAPE SEED OIL			

Medium	Chieftain® X	Centurion® X	Sentinel® X
REFRIGERANT R12 (eg FREON® 12)			
R22 (eg FREON® 22)			Not recommended
R134a (eg KLEA® 134a)			
R404a (eg KLEA® 404a)			
R407 SERIES (eg KLEA® 407 SERIES)			
SEA WATER			
SODIUM CARBONATE			
SODIUM DICHROMATE			
SODIUM HYDROXIDE (<50%, CAUSTIC SODA)	Consult	Consult	Not recommended
SODIUM HYPOCHLORITE	Not recommended	Consult	Not recommended
STARCH			
STYRENE			
SULPHUR DIOXIDE (DRY)			Not recommended
SULPHUR DIOXIDE (WET)	Not recommended	Not recommended	Not recommended
SULPHUR TRIOXIDE	Not recommended	Not recommended	Not recommended
SULPHURIC ACID	Not recommended	Not recommended	Not recommended
TANNIC ACID			
TITANIUM DIOXIDE			
TITANIUM TETRACHLORIDE	Consult	Consult	Not recommended
TOLUENE			
TRANSFORMER OIL		Not recommended	Not recommended
TRICHLOROETHANE			Not recommended
TRICHLOROETHYLENE			
TURPENTINE			
UREA			
VINYL ACETATE			
VINYL CHLORIDE			
WHITE LIQUOR			Not recommended
WHITE SPIRIT			
XYLENE			

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Our personnel will be happy to discuss any historical examples we have of the material or product having been previously used in a particular application.

To ensure you are working with the very latest product specifications, please consult the relevant section of the James Walker website: www.jameswalker.biz.

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