



CHEMICAL RESISTANCE CHART INDUSTRIAL PRODUCTS – TECHNICAL BULLETIN #675H

Revised: 02/2020

BULLETIN DESCRIPTION

This Bulletin shows the relative Chemical Resistance of ITW Performance Polymers' Industrial products.

The level resistance to an individual chemical is indicated by one of the following three letters:

R – RESISTANT TO IMMERSION OR PROLONGED CONTACT

S – RESISTANT TO SPLASH AND SPILLAGE ONLY

N – NOT RECOMMENDED

NOTE: "All CF/EW/CWC Prod." means all products with the the name CHOCKFAST, such as Chockfast Red, Chockfast Orange, Chockfast Black, etc., the name ESCOWELD, such as Escoweld 7505E/7530, or the name CWC, such as CWC 604.

CHEMICAL RESISTANCE

	All CF/EW/CWC Prod.	REPAIR COMPOUND	PHILLYBOND #6 & PHILLYCLAD #8	EXPANSION JOINT COMPOUND
ACETALDEHYDE CONC.	S	S	S	N
ACETIC ACID - UP TO 12%	R	R	R	R
ACETIC ACID - 12 TO 20%	S	S	S	S
ACETIC ACID - OVER 20%	N	N	N	N
ACETONE - 100%	N	N	N	N
ACIDS, DILUTE INORGANIC	R	R	R	S
ACIDS, CONCENTRATED	N	N	N	S
ACRYLIC ACID	N	N	N	N
AIR	R	R	R	R
ALCOHOLS	R	R	R	S
ALDEHYDES	S	S	S	N
ALLYL CHLORIDE	S	S	S	N
ALUM, AMMONIUM	R	R	R	R
ALLUMINIUM CHLORIDE	R	R	R	R
ALUMINUM SULFATE	R	R	R	R
ALUMINUM POTASSIUM SULFATE	R	R	R	R
ALIPHATIC HYDROCARB.	R	S	R	R
AMMONIA, 10%	R	R	R	R
AMMONIA, 25%	N	N	N	N
AMMONIUM CHLORIDE	S	S	S	S
AMMONIUM BICARBONATE	R	R	R	R
AMMONIUM BIFLUORIDE	S	S	S	S
AMMONIUM NITRATE	S	S	S	S
AMMONIUM PHOSPHATE	S	S	S	R
AMMONIUM SULFATE	S	S	S	R
AMYL ACETATE	R	S	S	S
AMYL ALCOHOL	R	R	R	S
AMYL CHLORIDE	S	S	S	S
ANILINE	N	N	N	N
ANTIMONY CHLORIDE, TRI-	R	R	R	R
AROMATIC HYDROCARBONS	R	S	R	S
BEER	S	S	S	R
BENZALDEHYDE	N	N	N	N
BENZENE	N	N	N	N
BENZENE HEXACHLORIDE	R	R	R	S
BENZENE SULFONIC ACID	S	S	S	N
BLACK LIQUOR	R	R	R	R
BLEACH LIQUOR	S	S	S	S
BORIC ACID	R	R	R	R
BROMINE WATER	S	S	S	S
BUTYL ACETATE	S	S	S	S
BUTYL ALCOHOL (BUTANOL)	R	R	R	S
BUTYL CELLOSOLVE	R	R	R	R
BUTYRIC ACID	R	R	R	S

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ITW PERFORMANCE POLYMERS

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CHEMICAL RESISTANCE

	All CF/EW/CWC Prod.	REPAIR COMPOUND	PHILLYBOND #6 & PHILLYCLAD #8	EXPANSION JOINT COMPOUND
CALCIUM CHLORATE	S	S	S	N
CALCIUM CHLORIDE	R	R	R	R
CALCIUM HYDROXIDE	R	R	R	R
CALCIUM HYPOCHLORITE	S	S	S	S
CARBON BISULFIDE	S	S	S	N
CARBON TETRACHLORIDE	S	S	S	N
CAUSTIC SODA	R	R	R	R
CAUSTIC POTASH	R	R	R	R
CHLORINATED SOLVENTS	S	S	S	S
CHLORINE SOLUTION	S	S	S	S
CHLORINE GAS R	R	R	R	R
CHLORO BENZENE	N	N	N	N
CHLOROSULFONIC ACID, DILUTE	R	R	R	R
CHROMIC ACID - UP TO 20%	R	R	R	R
CHROMIC ACID - OVER 20%	N	N	N	N
CITRIC ACID 50%	S	S	S	S
CITRIC ACID, DILUTE 20%	R	R	R	R
COPPER CHLORIDE	R	R	R	R
COPPER SULFATE	R	R	R	R
CRUDE OIL, SWEET/SOUR	R	R	R	R
CYCLOHEXANOL 100%	R	R	R	R
CYCLOHEXANONE 100%	N	N	N	N
DETERGENTS	R	R	R	R
DIBUTYL PHTHALATE	S	S	S	S
DIETHYL ETHER	R	S	R	R
DIETHYLENEDIAMINE 10%	N	N	N	N
DIMETHYL PHTHALATE	S	S	S	S
DIOXANE	N	N	N	N
ETHERS	S	S	S	S
ETHYL ALCOHOL 96% (192 PROOF ETHANOL)	S	N	S	S
ETHYL BENZENE	N	N	N	N
ETHYLENEDIAMINE	N	N	N	N
ETHYLENE DICHLORIDE	S	S	S	S
ETHYLENE GLYCOL	R	R	R	R
FATTY ACIDS	R	N	R	R
FERRIC CHLORIDE	R	S	R	R
FERRIC NITRATE	S	S	S	S
FERRIC SULFATE	R	R	R	R
FORMALDEHYDE, 10%	R	R	R	R
FORMIC ACID	N	N	N	N

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GASOLINE, REGULAR	R	R	R	R
GASOLINE, AVIATION	R	R	R	R
GLYCERIN (GLYCEROL)	R	R	S	R
HEXANE	R	R	R	R
HEXYLENE GLYCOL	R	R	R	R
HYDROBROMIC ACID	S	S	S	S
HYDROCHLORIC ACID, 20%	R	S	R	R
HYDROCHLORIC, CONCENTRATED	S	S	S	S
HYDROCYANIC ACID	S	S	S	S
HYDROFLUORIC ACID	S	N	S	S
HYDROGEN PEROXIDE, DILUTE	S	S	S	S
HYDROGEN SULFIDE	S	S	S	S
HYPO SOLUTION	R	R	R	R
HYPOCHLOROUS ACID	S	S	S	S
IODINE	S	S	S	S
JET FUEL	R	R	R	R
KEROSENE	R	R	R	R
KETONES	S	S	S	S
KRAFT COOKING OIL, ACID	R	R	R	R
KRAFT COOKING OIL, 250°F	S	S	S	S
LACTIC ACID (DILUTE)	R	R	R	R
LINSEED OIL	R	R	R	R
MAGNESIUM CHLORIDE	R	R	R	R
MAGNESIUM SULFATE	R	R	R	R
MALEIC ANHYDRIDE	S	S	S	S
MERCURIC CHLORIDE	S	S	S	S
MERCUROUS NITRATE	S	S	S	S
METHYL ALCOHOL (METHANOL)	S	S	S	S
METHYLENE DICHLORIDE	N	N	N	N
METHYL ETHYL KETONE	S	S	S	S
MILK	R	R	R	R
MINERAL OIL	R	R	R	R
MOLASSES	R	R	R	R
MOTOR OIL	R	R	R	R

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NAPHTHA	R	R	R	R
NICKEL CHLORIDE	R	R	R	R
NICKEL SULFATE	R	R	R	R
NITRIC ACID - 10%	R	R	R	R
NITRIC ACID, CONCENTRATED	N	N	N	N
NITROBENZENE 100%	N	N	N	N
OLEIC ACID	S	S	S	S
OXALIC ACID	S	S	S	S
OXYGEN	R	R	R	R
PHENOL	N	N	N	N
PHOSPHORIC ACID, DIL.	R	R	R	R
PLATING SOLUTIONS	S	S	S	S
POTASSIUM CARBONATE	R	R	R	R
POTASSIUM CHLORIDE	R	R	R	R
POTASSIUM DICROMATE	S	S	S	S
POTASSIUM HYDROXIDE 40%	S	S	S	S
POTASSIUM NITRATE	S	S	S	S
SEA WATER	R	R	R	R
SOAP SOLUTION	R	R	R	R
SODIUM BISULFATE	R	R	R	R
SODIUM BICHROMATE SOL. 66g/100	R	R	R	R
SODIUM CARBONATE	R	R	R	R
SODIUM CHLORIDE	R	R	R	R
SODIUM CHLORITE 10g/100	S	S	S	S
SODIUM HYDROXIDE, 50%	S	S	S	S
SODIUM HYPOCHLORITE	S	S	S	S
SODIUM METHOXIDE	S	S	S	S
SODIUM NITRATE	S	S	S	S
SODIUM PHOSPHATE, TRI	R	S	R	R
SODIUM SULFATE	R	R	R	R
SODIUM THIOSULFATE	S	S	S	S
STEARIC ACID	R	R	R	R
STANNIC CHLORIDE	R	R	R	R
STYRENE	N	N	N	N
SUGAR	R	R	R	R
SULFAMIC ACID	R	R	R	R
SULFUR DIOXIDE	R	R	R	R
SULFURIC ACID, 20%	R	S	R	R
SULFURIC ACID, 50%	S	S	S	S
SULFURIC ACID, 95%	N	N	N	N

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TANNIC ACID	S	S	S	S
TARTARIC ACID	R	R	R	R
TETRACHLOROETHANE	N	N	N	N
TETRAETHYLENE PENTAMINE	R	R	R	R
TOLUENE SULFONIC ACID	S	S	S	S
TOLUENE	N	N	N	N
TRICHLOROACETIC ACID	N	N	N	N
TRICHLOROETHYLENE	N	N	N	N
TRISODIUM PHOSPHATE	R	R	R	R
TURPENTINE	N	N	N	N
UREA	R	S	R	R
URINE	R	R	R	R
VINEGAR	R	S	R	R
WATER, ACID, HOT, STEAM	S	N	S	S
WATER, BOILING	S	N	S	S
WAX EMULSION	R	R	R	R
WINE	R	S	R	R
XYLENE	R	S	R	R
ZINC CHLORIDE	S	S	S	S
ZINC SULFATE	S	S	S	S

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General: Every reasonable effort is made to insure the technical information and recommendations on these data pages are true and accurate to the best of our knowledge at the date of issuance. However, this information is subject to change without notice. Prior versions of this publication are invalid with the release of this version. Products and information are intended for use by qualified applicators that have the required background, technical knowledge, and equipment to perform said tasks in a satisfactory manner. Consult your local distributor for product availability, additional product information, and technical support. **Warranty:** ITW Performance Polymers, a division of Illinois Tool Works Inc., warrants that its products meet their printed specifications. This is the sole warranty. This warranty expires one year after product shipment. **Warranty Claims:** If any product fails to meet the above, ITW Performance Polymers will, at its option, either replace the product or refund the purchase price. ITW Performance Polymers will have no other liability for breach of warranty, negligence, or otherwise. All warranty claims must be made in writing within one year of the date of shipment. No other claims will be considered. **Disclaimer:** ITW Performance Polymers makes no other warranty, expressed or implied, and specifically disclaims any warranty of merchantability or fitness for a particular purpose. Suggestions concerning the use of products are not warranties. The purchaser assumes the responsibility for determining suitability of products and appropriate use. ITW Performance Polymers' sole liability, for breach of warranty, negligence or otherwise, shall be the replacement of product or refund of the purchase price, at ITW Performance Polymers' election. Under no circumstances shall ITW Performance Polymers be liable for any indirect, incidental or consequential damages. **Modification of Warranty:** No distributor or sales representative has the authority to change the above provisions. No change in the above provisions will be valid unless in writing and signed by an officer or the Technical Director of ITW Performance Polymers. No term of any purchase order shall serve to modify any provision of this document. **Mediation and Arbitration:** If any dispute arises relating to products or product warranties, either the purchaser or ITW Performance Polymers may a) initiate mediation under the then current Center for Public Resources (CPR) Model Procedure for Mediation of Business Disputes, or b) initiate a non-binding arbitration under the rules of the American Arbitration Association for the resolution of commercial disputes.

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