"CP" PEEK Material Chemical Compatibility Chart

TDI International, Inc.

Equipment

Chairs & Stools
Desiccator Cabinets
Dry Boxes
Glove Boxes
Nitro-Save®

Hand Tools

Tweezers
Cutters
Diamond Scribes
Micro Mini Tools
Micro Shears
PEEK Probes
Pliers
Vacuum Pickup Tools

The Technical Source!

Product Information
Desiccator Models
Tweezers Material Selection
Tweezers Compatibility
Tweezers Data Sheets

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"CP" PEEK Material Chemical Compatibility Chart Ratings:

A = Excellent
B = Good – Minor Effect, slight corrosion or discoloration.
C = Fair – Moderate Effect, not recommended for continuous use. Softening, loss of strength, swelling may occur.
D = Severe Effect, not recommended for ANY use.
N/A = Information Not Available

The chart below provides an alphabetical list of chemicals along with our best general recommendations regarding their compatib
PEEK Tweezer Tips

Acids

Chemicals	23°C (73°F)	100°C (212°F)
ACETIC ACID, 10% CONC.>	A	A
ACETIC ACID, CONC.>	A	A
ACRYLIC ACID>	A	A
AQUA REGIA>	C	C
BENZENE SULPHONIC ACID>	C	N/A
BENZOIC ACID>	A	A
BORIC ACID>	A	A
CARBOLIC ACID>	A	N/A
CARBONIC ACID>	A	A
CHLORACETIC ACID>	A	A
CHLOROSULFONIC ACID>	C	C
CHROMIC ACID, 40% CONC.>	A	N/A
CHROMIC ACID, CONC.>	C	C
CITRIC ACID>	A	A
FORMIC ACID>	B	B
HYDROBROMIC ACID (100%)>	C	C
HYDROCHLORIC ACID, 10% CONC.>	A	A
HYDROCHLORIC ACID, CONC.>	A	B
HYDROCYANIC ACID>	A	A
HYDROFLUORIC ACID (40%)>	C	C
HYDROFLUORIC ACID (70%)>	C	C
LACTIC ACID>	A	A
MALEIC ACID>	A	A
NITRIC ACID, 10% CONC.>	A	A
NITRIC ACID, 30% CONC.>	B	N/A
NITRIC ACID, 50% CONC.>	C	C
NITRIC ACID, CONC.>	C	C
NITROUS ACID, 10%>	A	N/A
OLEIC ACID>	A	N/A
OLEUM>	C	C
OXALIC ACID>	A	A
PERCHLORIC ACID>	A	A
PHOSPHORIC ACID, 10% CONC.>	A	A

PHOSPHORIC ACID, 50% CONC.>	A	A

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Contact TDI for volume hand tool pricing!

Call: 1-520-799-8000

Email: handtools@tdiinternational.com

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CONNECT W

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AMMONIA, ANHYDROUS>	A	A
AMMONIA, AQUEOUS>	A	A
AMMONIUM HYDROXIDE, 10% CONC.>	A	N/A
AMMONIUM HYDROXIDE, CONC.>	A	N/A
CALCIUM HYDROXIDE>	A	N/A
HYDRAZINE>	A	A
MAGNESIUM HYDROXIDE>	A	N/A
POTASSIUM HYDROXIDE, 10% CONC.>	A	N/A
POTASSIUM HYDROXIDE, 70% CONC.>	A	N/A
SODIUM HYDROXIDE, 10% CONC.>	A	A
SODIUM HYDROXIDE, 50% CONC.>	A	A
SODIUM HYDROXIDE, CONC.>	N/A	N/A
Inorganic Reagents		
Chemicals	23°C (73°F)	100°C (212°F)
ALUMINUM CHLORIDE>	A	A
ALUMINUM SULPHATE>	A	A
ALUM, SATURATED>	A	A
AMMONIUM CHLORIDE (10% CONC.)>	A	A
AMMONIUM NITRATE>	A	A
ANTIMONY TRICHLORIDE>	A	A
BARIUM SALTS (CHLORIDE, SULFIDE)>	A	N/A
BLEACH>	A	A
BRINE>	A	A
BROMINE>	C	C
BROMINE (DRY)>	C	C
BROMINE (WET)>	C	C
BROMINE WATER, SATURATED>	A	A
CALCIUM BISULPHIDE>	A	A
CALCIUM CARBONATE>	A	N/A
CALCIUM CHLORIDE>	A	A
CALCIUM HYPOCHLORITE>	A	A
CALCIUM NITRATE>	A	N/A

CALCIUM SULPHATE>	A	A
CARBON DIOXIDE (DRY)>	A	N/A
CARBON MONOXIDE (GS)>	A	A
CHLORINE (GAS-DRY)>	A	A
CHLORINE (GAS-WET)>	C	C
CHLORINE (LIQUID)>	C	C
CHLORINE (WET)>	C	C
COPPER ACETATE>	A	A
COPPER CARBONATE>	A	A
COPPER CHLORIDE>	A	A
COPPER CYANIDE>	A	A
COPPER FLUORIDE>	A	A
COPPER NITRATE>	A	A
COPPER SULPHATE>	A	A
CUPRIC FLUORIDE>	A	A
CUPRIC SULPHATE>	A	A
CUPROUS CHLORIDE>	A	A
ETHYLENE NITRATE>	A	N/A
FERRIC CHLORIDE>	B	B
FERRIC NITRATE>	A	N/A
FERRIC OXIDE>	A	A
FERRIC SULPHATE>	A	N/A
FERROUS CHLORIDE>	A	N/A
FERROUS NITRATE>	A	N/A
FERROUS SULPHATE>	A	N/A
FLUORINE>	C	C
HYDROGEN PEROXIDE>	A	N/A
HYDROGEN SULPHIDE (GAS)>	A	A
IODINE>	B	N/A
LEAD ACETATE>	A	A
LIME>	A	A
MAGNESIUM CHLORIDE>	A	A
MAGNESIUM SULPHATE>	A	A
MERCURIC CHLORIDE>	A	A
MERCUROUS CHLORIDE>	A	N/A
MERCURY>	A	A
NICKEL ACETATE>	A	A
NICKEL CHLORIDE>	A	A
NICKEL NITRATE>	A	A
NICKEL SALTS>	A	N/A
NICKEL SULPHATE>	A	A
NITROGEN>	A	N/A
NITROUS OXIDE>	A	N/A
OXYGEN>	A	N/A
OZONE>	A	B

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PHOSPHOROUS CHLORIDES>	A	A
PHOSPHOROUS PENTOXIDE>	A	A
POTASSIUM ALUMINUM SULPHATE>	A	A
POTASSIUM BICARBONATE>	A	N/A
POTASSIUM BROMIDE>	A	A
POTASSIUM CARBONATE>	A	N/A
POTASSIUM CHLORATE>	A	A
POTASSIUM CHLORIDE>	A	A
POTASSIUM DICHROMATE>	A	N/A
POTASSIUM FERRICYANIDE>	A	N/A
POTASSIUM FERROCYANIDE>	A	N/A
POTASSIUM HYDROXIDE>	A	A
POTASSIUM NITRATE>	A	A
POTASSIUM PERMANGANATE>	A	N/A
POTASSIUM SULPHATE>	A	A
POTASSIUM SULPHIDE>	A	N/A
SILICONE FLUIDS>	A	A
SILVER NITRATE>	A	A
SODIUM ACETATE>	A	N/A
SODIUM BICARBONATE>	A	N/A
SODIUM CARBONATE>	A	A
SODIUM CHLORATE>	A	A
SODIUM CHLORIDE>	A	A
SODIUM HYPOCHLORITE>	A	A
SODIUM NITRATE>	A	A
SODIUM NITRITE>	A	N/A
SODIUM PEROXIDE>	A	A
SODIUM SALTS>	A	N/A
SODIUM SILICATE>	A	A
SODIUM SULPHATE>	A	A
SODIUM SULPHIDE>	A	A
SODIUM SULPHITE>	A	A
SODIUM (HOT)>	C	C
STANNIC CHLORIDE>	A	A
STANNOUS CHLORIDE>	A	A
STEAM>	A	A
SULPHUR>	A	A
SULPHUR CHLORIDE>	A	A
SULPHUR DICHLORIDE>	A	A
SULPHUR DIOXIDE>	A	A
SULPHUR HEXAFLUORIDE (GAS)>	A	N/A
SULPHUR TRIOXIDE>	A	A
TAR>	A	N/A
TETRAETHYL LEAD>	A	N/A
WATER, DISTILLED>	A	A

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WATER>	A	A
WATER, SEA/SALT>	A	A
ZINC CHLORIDE>	A	A
ZINC SULPHATE>	A	A
Alcohols		
Chemicals	23°C (73°F)	100°C (212°F)
BENZYL ALCOHOL>	A	N/A
BUTANOL>	A	N/A
CYCLOHEXANOL>	A	N/A
ETHANOL>	A	A
ETHYLENE GLYCOL>	A	A
ETHYLENE GLYCOL, 50% CONC.>	A	A
GLYCEROL>	A	N/A
GLYCOLS>	A	A
ISOPROPANOL>	A	N/A
METHANOL>	A	A
PROPANOL>	A	N/A
Alcohols		
Aldehydes and Ketones	23°C (73°F)	100°C (212°F)
ACETALDEHYDE>	A	A
ACETONE>	A	A
BENZALDEHYDE>	A	N/A
CYCLOHEXANONE>	A	N/A
FORMALDEHYDE>	A	A
FORMALIN>	A	N/A
METHYLETHYL KETONE (MEK)>	A	B
N-METHYL-2-PYRROLIDONE (NMP)>	A	N/A
Esters		
Chemicals	23°C (73°F)	100°C (212°F)
ALIPHATIC ESTERS>	A	A
AMYL ACETATE>	A	A
BUTYL ACETATE>	A	N/A
DIBUTYL PHTHALATE>	A	N/A
DIMETHYL PHTHALATE>	A	N/A
DIOCTYL PHTHALATE>	A	N/A
ETHYL ACETATE>	A	N/A
OILS (DI-ESTER & PHOSPHATE ESTER BASED)>	A	A
Ethers		
Chemicals	23°C (73°F)	100°C (212°F)
DIETHYLETHER>	A	A
DIOXANE>	A	N/A
ETHYLENE OXIDE (Et0)>	A	N/A
TETRAHYDROFURAN (THF)>	A	N/A
Organo-Nitrogen Compounds		

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Organo-Nitrogen Compounds

Chemicals	23°C (73°F)	100°C (212°F)
ACETONITRILE>	A	N/A
ANILINE>	A	B
DIMETHYL FORMAMIDE (DMF)>	A	N/A
DIETHYLAMINE>	A	N/A
NITROBENZENE>	A	N/A
PYRIDINE>	A	A

Halogenated Organics

Chemicals	23°C (73°F)	100°C (212°F)
1,2 DICHLOROETHANE>	A	N/A
CARBON TETRACHLORIDE>	A	A
CHLOROBENZENE>	A	A
CHLOROFORM>	A	A
DIBROMOETHANE>	A	N/A
DICHLOROBENZENE>	A	N/A
FREON* (ARKLONE®) TRICHLOROTRIFLUOROETHANE>	A	N/A
FREON 114, 1, 1 DICHLORO, 1,2,2,2 TETRAFLUOROETHANE>	A	N/A
FREON 12, DICHLORIDIFLUOROMETHANE>	A	N/A
FREON 22, CHLORODIFLUOROMETHANE>	A	A
FREON 134a>	A	N/A
FREON 502>	A	A
GENKLENE®* (1,1,1 TRICHLOROETHANE)>	A	N/A
METHYLENE CHLORIDE>	A	N/A
PERCHLOROETHYLENE>	A	A
TRICHLOROETHYLENE>	A	A

Hydrocarbons

Chemicals	23°C (73°F)	100°C (212°F)
ACETYLENE>	A	A
AROMATIC SOLVENTS>	A	A
AVIATION HYDRAULIC FLUID>	A	N/A
BENZENE>	A	A
BRAKE FLUID (MINERAL)>	A	A
BRAKE FLUID (POLYGLYCOL)>	A	A
BUTANE>	A	N/A
CRUDE OIL>	A	N/A
CYCLOHEXANE>	A	A
DIESEL OIL>	A	N/A
DOWTHERM* G>	B	N/A
DOWTHERM* HT>	B	N/A
DOWTHERM* LF>	B	N/A
FUEL OIL>	A	N/A
GAS (MANUFACTURED)>	A	N/A
GAS (NATURAL)>	A	N/A
GASOLINE>	A	N/A

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HEPTANE>	A	N/A
HEXANE>	A	N/A
HYDRAULIC FLUID>	A	N/A
IO-OCTANE>	A	N/A
KEROSENE>	A	N/A
LUBRICATING OIL>	A	N/A
METHANE (GAS)>	A	A
MOTOR OIL>	A	A
NAPHTHA>	A	A
NAPHTHALENE>	A	A
OILS (PETROLEUM)>	A	A
OILS (VEGETABLE)>	A	A
PENTANE>	A	N/A
PETROLEUM ETHER>	A	A
PROPANE>	A	N/A
SKYDROL* HYDRAULIC FLUID>	A	N/A
STYRENE (LIQUID)>	A	N/A
TOLUENE>	A	N/A
TRANSFORMER OIL>	A	A
VASELINE*>	A	N/A
XYLENE>	A	N/A
Miscellaneous Reagents		
Chemicals	23°C (73°F)	100°C (212°F)
ADHESIVES (NOT CYANOACRYLATES)>	A	N/A
CREOSOTE>	A	N/A
DETERGENT SOLUTIONS (NON-PHENOLIC)>	A	A
FATTY ACIDS>	A	A
MINERAL OIL>	A	N/A
SOAP SOLUTION>	A	N/A
TALLOW>	A	A
TURPENTINE>	A	N/A
UREA>	A	A
WAX>	A	N/A
YEAST>	A	A

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