This report is offered as a guide and was developed from information which, to the best of New Pig's knowledge, was reliable and accurate. Due to variables and conditions of application beyond New Pig's control, none of the data shown in this guide is to be construed as a guarantee, expressed or implied. New Pig assumes no responsibility, obligation, or liability in conjunction with the use or misuse of the information.

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Chemical Compatibility Guide for:
PIG Instant Leak Plug

As with all potentially hazardous materials, necessary precautions must be followed to assure the safety of the user. This may include ancillary equipment, personal protective equipment, training and constant monitoring of leak after deployment of unit.

PIG Instant Leak Plug unit should never be considered a permanent solution to a leak or rupture.

Refer to manufacturers MSDS for complete information regarding handling, clean-up and proper disposal of all hazardous materials.

Chemical Name	CAS #	Seal Time Limit	Comments
Automotive Gasoline	8006-61-9	10 hours	
Diesel Fuel	68476-34-6	10 hours	
Benzene	71-43-2	10 hours	
Carbon Tetrachloride	56-23-5	10 hours	
Chloroform	67-66-3	10 hours	
Cyclohexane	110-82-7	10 hours	
Diethyl Ether	60-29-7	10 hours	
Heptane	142-82-5	10 hours	
Hexane	110-54-3	10 hours	
Kerosene	8008-20-6	10 hours	
Methylene Chloride	75-09-2	10 hours	
Motor Oil	N/A	10 hours	
Pentane	109-66-0	10 hours	May dissolve some plastics
Toluene	1330-20-7	10 hours	
Xylene	108-88-3	10 hours	
Pyridine	110-86-1	1 hour	
Acetone	67-64-1	10 hours	
Acetonitrile	75-05-8	10 hours	
Dimethylformamide (DMF)*	68-12-2	10 hours	
Dimethyl Sulfoxide (DMSO)	67-68-5	10 hours	
Ethanol (190 Proof)	Mixture-Ethanol/Water	10 hours	95% 64-17-5 5% 7732-18-5
Ethyl Acetate	141-78-6	10 hours	
Iso Proplyl Acetate (IPA) 70%	Mixture-Ethanol/Water	10 hours	70% 67-63-0 30% 7732-18-5
Methanol	67-56-1	10 hours	
n-Propanol	71-23-8	10 hours	
n-Butanol	71-36-3	10 hours	
Tetrahydrofuran (THF)	109-99-9	10 hours	May dissolve some plastics
Chlorobenzene	108-90-7	10 hours	SCBA
Cyclohexanol	108-93-0	10 hours	
Dioxane	123-91-1	10 hours	SCBA
Dichloroethane	107-06-2	10 hours	SCBA
Ethyl Ether	60-29-7	10 hours	
Ethylene Glycol	107-21-1	10 hours	
Glycerin	56-81-5	10 hours	SCBA
HMPA	680-31-9	10 hours	
HMPT	1608-26-0	10 hours	SCBA

Chemical Name	CAS #	Seal Time Limit	Comments
Iso-Butanol	78-83-1	10 hours	
MTBE	1634-04-4	10 hours	SCBA
MEK	78-93-3	10 hours	SCBA
Mineral Spirits	8052-41-3	10 hours	
VM +P Naptha	8032-32-4	10 hours	
Solvent 140	64742-88-7	10 hours	SCBA

ACIDS

Chemical Name	CAS #	Seal Time Limit	Comments
Acetic Acid *	64-19-7	10 hours	pH 3.2
Formic Acid (88%)**	64-18-6	0.75 hour	pH 2.3
Hydrochloric Acid**	Hydrogen Chloride/Water 7647-01-0 / 7732-18-5	1 hour	20-38% Hydrogen Chloride 62-80% Water
Nitric Acid (65%)***	Nitric Acid/Water – 7697-37-2 / 7732-18-5	**CAN NOT BE USED**	65% Nitric Acid 35% Water
Phosphoric Acid (85%)*	Phosphoric Acid/Water – 7664-38-2 / 7732-18-5	10 hours	85-88% Phosphoric 12-15% Water
Sulfuric Acid**	7764-93-9	1 hour	Concentration Dependent, pH 1.0-2.0
Octanoic Acid*	124-07-2	10 hours	pH 4.0

  * Had little to no effect on the components of the unit.

  ** Had partial effect on the components, reducing units holding time.

*** Had severe reaction with unit, holding time greatly reduced, use not recommended.

Performance of the PIG Instant Leak Plug on acid leaks will vary dependent on the type and strength of the acid involved. Generally, acids with a pKa value similar to acetic acid (4.75) (pH 3.4) should be safe to use with the PIG Instant Leak Plug. The sealing time capabilities of the unit will be reduced with stronger acids. If it is necessary to increase sealing times beyond the product's capability, it is recommended that you have multiple PIG Instant Leak Plugs on hand and replace as time dictates until the leak can be fully contained.