



PRODUCT TECHNICAL DATA SHEET

70079 Matrix

Fuels and Chemical Resistant Matrix

Main description --- Type 70079 matrix is a premium quality, two-component, novolac-epoxy hybrid system with excellent exposure resistance to most military and civilian fuels and a vast array of chemicals. This product is used as a composite matrix where its fuel and chemical performances are required. It is very resistant to moisture and humidity effects. It will cure in high humidity conditions. This product contains no solvents, is 100% solids, and contains zero VOC's. This product ships as non-hazardous.

ATTENTION: All of the following data are based on laboratory conditions, at room temperature. Field conditions can radically change the characteristics of this product. Higher temperatures will lessen the working life of the product. Allow adequate time for application. Field testing is strongly recommended prior to application.

EPOXY PROPERTIES			
Working (pot) Life:	30 min. at 25°C (77°F)	Mix Ratio:	Factory Ratioed
Application Temps:	13-38°C (55-100°F)	Service Temps:	-40-60°C (-40 – 140°F)
Cure Time (dry to touch):	8 hours at 25°C (77°F)	Full Cure:	7 days at 25°C (77°F)
Usual Packaging:	Factory Ratioed	Shelf Life:	1 year in sealed jar
Color:	Light Grey	Hardness:	90 Shore D - ASTM D-2240
COMPOSITE LAMINATE PROPERTIES			
TEST	W-11 FABRIC	G-03 FABRIC	
Ultimate Tensile Strength:	44,734 psi (warp direction) per ASTM D-3039	N/A	
Ultimate Tensile Strength:	15,778 psi (fill direction) per ASTM D-3039	N/A	
Tensile Modulus:	2.4 x 10 ⁶ psi	N/A	
Load Per Ply:	1,644 lbs.	N/A	
HDT:	N/A	N/A	
CTE, in/in/°F:	N/A	N/A	

Storage & Handling – Store at 60-90° F in a dry place. Keep from freezing. Keep any leftover material in a tightly sealed container. Always use clean, dry tools when mixing and applying the matrix. Mix ratios are pre-determined and packaged accordingly. Normal mixing procedure is to pour the contents of the Part B container into the Part A container and mix thoroughly. Use immediately. Mixtures left in containers can obtain dangerous temperatures during cure and can cause damage to the container and surrounding items.

Shelf Life – 12 months from date of sale, in an unopened container, stored in cool warehouse conditions.

Caution – Read MSDS prior to use. Some persons may be irritated by this compound. Use caution and PPE. This product is for industrial use by professionally trained personnel only. Please read and understand all application instructions prior to using.

N/A - Data not available at the time of printing.

ABSTRACT OF WARRANTY: There is no warranty, express or implied, with respect to this product or any of its properties or applications. All of the data printed on this Technical Data Sheet is approximate and may not apply to your situation. Air Logistics liability with respect to the use and or application of this product is strictly limited to the replacement costs of any product shown to be defective by laboratory testing. See our full Terms and Conditions for the actual warranty and terms of sale.

ATTENTION: No representation is made as to the accuracy or correctness of the information contained herein, other than to state that it is presented by this organization in good faith and we believe it to be correct and accurate per the limits of our understanding and training as of the date of first publication. The user or handler of this product is warned to take the most conservative and safest interpretation possible of all information contained herein and to use the most extreme personal protection measures and exposure limitations prudently dictated by the specific usage or handling situation, this product's MSDS information and good industrial safety and hygiene practices.





70079 Matrix Chemical Resistance Guide

Values are based on 3 week immersions.

REAGENT	% WEIGHT GAIN (LOSS)
JP-4, JP-5, JP-7, JP-8	0.0
Skydrol	(0.03)
Synthetic Gasohol	0.0
Mogas Diesel	0.0
Diethylene Glycol Monomethyl Ether	0.0
Ethylene Glycol Monobutyl Ether	2.4
Water, (deionized)	1.2
5% Detergent Solution	0.0
10% Sodium Hydroxide	0.0
50% Sodium Hydroxide	(0.2)
10% Sulfuric Acid	0.0
70% Sulfuric Acid	0.2
10% Hydrochloric Acid	0.1
5% Acetic Acid	2.6
10% Acetic Acid	5.4
Xylene	0.0
1,1,1 Trichloroethane	0.0
Toluene	2.3
Ethyl alcohol	6.9
MEK	2.3

