



ANE-57103

DEFINITION

ANE-57103 is a toughened two part adhesive. **ANE-57103** is used for high speed bonding even at lower temperatures. **ANE-57103** is specifically developed for bonding difficult substrates such as glass, ceramics, metals and engineered plastics. Proven applications are bonding MRI magnets under full load, and bonding microwave antenna assemblies for use in urban and military cellular communication stations.

PRODUCT DESCRIPTION

Appearance	Liquid
Odor	Faint
Color (May be modified to meet your requirements)	Clear to amber

Property	Result	Methods
Viscosity	10,000 mPa·s	Brookfield RVT, Spindle 27, Small Sample Adaptor, 10 rpm, 25°C

Other information		
Work life time @ 25 ± 2°C	8 minutes (viscosity doubles)	
Gel Time @ 25°C	11 minutes (depending on mass and substrates)	
Full Cure Time @ 25°C	20 minutes	
Fixture/Handling Time @ 25°C	11 minutes	
Fixture/Handling Time @ 85°C	> 1 minutes	
Mix Ratio:	By weight:	Part A 100 Part B 100
	By Volume:	Part A 100 Part B 100
Possible curing cycles	20 minutes at 25°C 1 minute @ 65°C (150°F)	
Specific gravity @ 25°C (g/cm ³)	1.13	
Storage stability (unmixed)	1 year at room temperature	

APPLICATION PROPERTIES

- **ANE- 57103**, when fully cured, is highly resistant to moisture, antifreeze solutions, automotive fluids, detergents, gasoline, hydraulic fluids, plasticizers, cleaning agents, acids, and bases.
- **ANE-57103** is highly resistant to vibration and can be thermal cycled between -40 and 150°F.

TYPICAL PROPERTIES OF CURED ANE-57103

The properties set out below were determined following measurements carried out in the laboratory over a small number of tests. They are values given by way of guidance, and do not constitute a guarantee. It will be for the user, in all cases, to carry out their own tests to determine whether the **ANE-57103** resin can be used for the particular application the user has in mind.

PHYSICO-CHEMICAL PROPERTIES

Properties	Methods	Units	Typical values
Cure 2 hours @ 25°C			
Shore D hardness	ASTM D2240	-----	65 ± 10
Lap shear to Al	ASTM D3163	psi	4,500 EST

ELECTRICAL PROPERTIES

Properties	Methods	Units	Typical values
Volume Resistivity <ul style="list-style-type: none">• 100 V• 500 V	ASTM D257	Ω-cm	<ul style="list-style-type: none">• 8.0 x 10¹⁴• 6.3 x 10¹⁴
Dielectric Constant <ul style="list-style-type: none">• 120 Hz• 1000 Hz	ASTM D150	--	<ul style="list-style-type: none">• 4.3• 4.3
Dissipation Factor <ul style="list-style-type: none">• 120 Hz• 1000 Hz	ASTM D150	--	<ul style="list-style-type: none">• 0.002• 0.002

PRECAUTIONS IN USE

Refer to the attached material safety data sheet.

PACKAGING

ANE-57103 is available in two component kits, and twin syringe cartridges like Mixpac™.

For sizes and part numbers, contact Protavic America, Inc.

The information contained in this data sheet corresponds to the present state of our knowledge; it is intended for your guidance but we are not bound by it since we are not in a position to exercise control over the manner in which our products are used. Moreover; the attention of the user is drawn to the risks that could possibly occur should a product be used for an application other than that for which it is intended.

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