



# ANE-17794

C6-57512

## DEFINITION

**ANE-17794** is a fast, one part, heat cure adhesive and is commonly used for high speed bonding. It is specifically developed for bonding difficult substrates such as, ceramics, metals and engineered plastics. Proven applications are bonding armatures in stepper motors, bonding ferrite, and sealing thyristors and thermistors against chemical attack.

## PRODUCT DESCRIPTION

Appearance	Liquid
Odor	Faint
Color	White to amber

Property	Result	Methods
Viscosity Relative to heat > see <a href="#">FIGURE I</a>	6,000 mPa's $\pm$ 1000	Brookfield RVT, Spindle 14, Small Sample Adaptor, 10 rpm, 25°C

<b>Other information</b>	
Assumptions: 5 gram mass not accounting for substrate / assembly	
Work life time @ 25 $\pm$ 2°C	6 months
Mix Ratio:	One Component
Possible curing cycles	5 minute at 150°C 1 minute @ 180°C
Specific gravity @ 25°C (g/cm <sup>3</sup> )	1.13
Storage stability (unmixed)	6 months at 25°C 12 months at 0-10°C

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### **APPLICATION PROPERTIES**

- **ANE-17794**, when fully cured, is highly resistant to moisture, antifreeze solutions, automotive fluids, detergents, gasoline, hydraulic fluids, plasticizers, cleaning agents, acids, and bases. Survives immersion in pure glacial acetic acid.
- **ANE-17794** is highly resistant to vibration and can be thermal cycled between –40 and 210°C, intermittent to 260 C.

### **TYPICAL PROPERTIES OF CURED ANE-17794**

The properties set out below were determined following measurements carried out in a laboratory. 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-17794** resin can be used for the particular application the user has in mind.

### **PHYSICO-CHEMICAL PROPERTIES**

Properties	Methods	Units	Typical values
Cure 30 minutes @ 150°C			
Shore D hardness	ASTM D2240	----	85
Lap shear to grit abraded 2024 T3 Al Relative to Heat > See <a href="#">FIGURE II</a>	ASTM D3163	psi	2,600
Glass transition temperature Tg	DSC 1	°C	100°C
Thermal conductivity	estimate	W/mK	0.3

### **ELECTRICAL PROPERTIES**

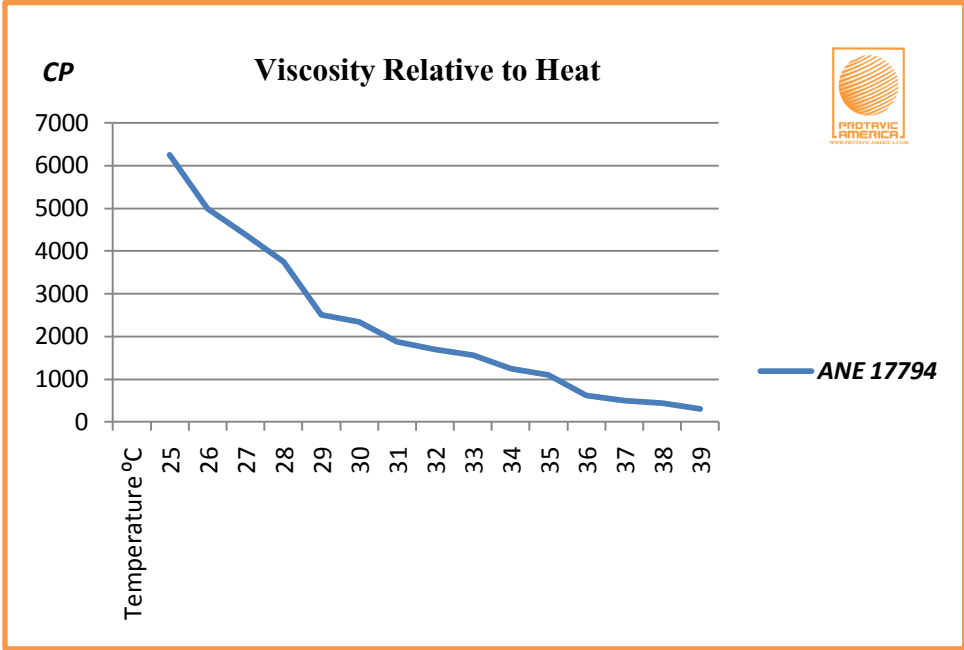
Properties	Methods	Units	Typical values
Volume Resistivity <ul style="list-style-type: none"><li>• 100 V</li><li>• 500 V</li></ul>	ASTM D257	Ω-cm	<ul style="list-style-type: none"><li>• 8.0 x 10<sup>14</sup></li><li>• 6.3 x 10<sup>14</sup></li></ul>
Dielectric Constant <ul style="list-style-type: none"><li>• 120 Hz</li><li>• 1000 Hz</li></ul>	ASTM D150	--	<ul style="list-style-type: none"><li>• 4.3</li><li>• 4.3</li></ul>
Dissipation Factor <ul style="list-style-type: none"><li>• 120 Hz</li><li>• 1000 Hz</li></ul>	ASTM D150	--	<ul style="list-style-type: none"><li>• 0.002</li><li>• 0.002</li></ul>
Coefficient of expansion	TMA	PPM/°C	< Tg 80 ppm > Tg 190 PPM

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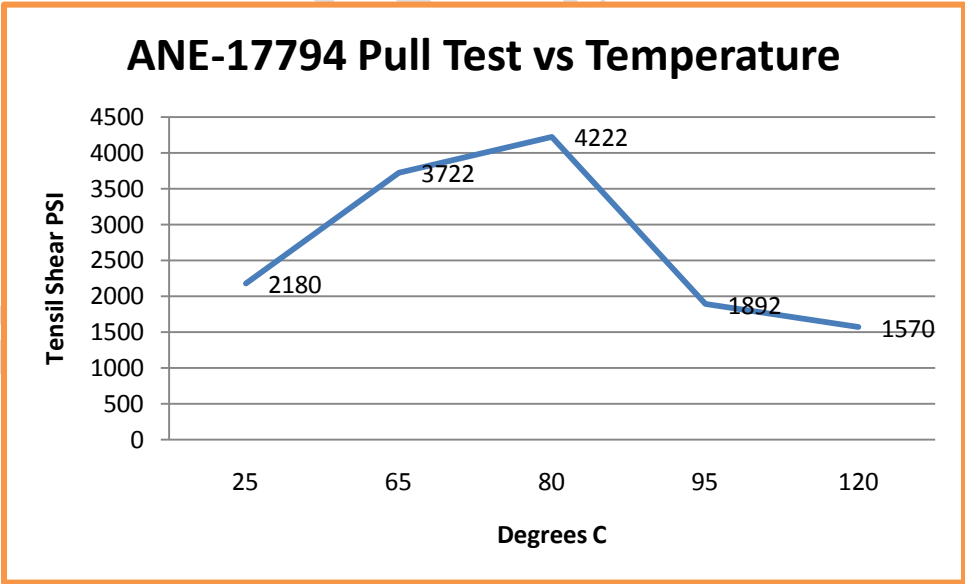
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**FIGURE I**



**FIGURE II**



**PRECAUTIONS IN USE**

Refer to the attached material safety data sheet.

**PACKAGING**

**ANE-17794** is available in syringes. 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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