



**System Three Resins, Inc.**  
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**TECHNICAL DATA SHEET**

**SilverTip MetlWeld™**  
 EPOXY ADHESIVE

**DESCRIPTION:**

MetlWeld™ is a toughened, two-part room-temperature curing epoxy adhesive. It is designed to bond well to mild steel, stainless steel, brass, copper and aluminum. MetlWeld™ develops strength earlier than most comparable 1:1 epoxy adhesives and will cure at temperatures down to 50° F. MetlWeld will bond metals to metal, wood, stone, concrete, or even glass.

**RESIN PROPERTIES:**

Viscosity ..... 8500 cps  
 Color ..... Light Gray  
 Density(lb/gal) ..... 12.17

**HARDENER PROPERTIES:**

Viscosity ..... 10,000 cps  
 Color ..... Dark Gray  
 Density(lb/gal) ..... 10.64

**MIXED SYSTEM PROPERTIES:**

Mix ratio by weight resin/hardener ..... 100/91  
 Mix ratio by volume resin/hardener ..... 100/100  
 Working time (100 g mixture) @ 25° C ..... 30 minutes  
 Tack-free time (5-10mil film) @ 25° C ..... 8 hours  
 Density Mixed(lb/gal) ..... 11.40

**TYPICAL CURED PROPERTIES (24hr. @ 77°F, 2hr. @ 140°F):**

Lap Shear Strength (psi) (ASTM D1002):  
 Aluminum ..... 2150  
 Cold-Rolled Steel ..... 2240  
 Stainless Steel ..... 2430  
 Brass ..... 1800  
 T-Peel Strength(ASTM D1876), (pli) ..... 28  
 Maximum Service Temperature(continuous use) ..... 125°F

**SURFACE PREPARATION:**

Surfaces to be bonded should be freshly sanded and clean of grease, wax, oil and other contaminants. Allow 48 hours minimum to cure and develop strength at 77°F(longer at cooler temperatures) before subjecting to stress.

Kit sizes available: ½-pint, 1 pint, 1 quart

For health and safety information concerning this product, refer to the MSDS sheets for SilverTip MetlWeld Adhesive. MSDS sheets are available on our website at [www.systemthree.com](http://www.systemthree.com), or by calling or writing System Three.

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.

**Helping you put it all together**