

**TECHNICAL DATA SHEET**

**UFC5407 LIQUID EPOXY RESIN**

**UFC5407 液态环氧树脂技术信息表**

UFC5407 is an easy-to-use, aluminum oxide, liquid epoxy resin with excellent electrical insulation properties and high thermal conductivity. UFC5407 can be cured with nearly any hardener to produce a wide range of properties and cure cycles. Several potential curing agents are listed below. Regardless of which curing agent is selected, the resultant plastic will have low shrinkage during cure, excellent thermal stability and conductivity, and be a strong and durable casting. Because the filler in UFC5407 is a high specific gravity material, it will tend to settle over time. Be sure to mix the UFC5407 at least once during a day when the material is being used. If mixing is difficult, the UFC5407 can be warmed to as high as 150°F. UFC5407 is natural in color and may vary from white to slightly yellow or light grey. Pigments can be added by request. A reduced settling version, UFC5407 AS, is available.

UFC5407 是使用十分方便含氧化铝的液态环氧树脂，具有极其优良的电子绝缘性和高热导性。UFC5407 几乎可以和任何固化剂作用而产生更广泛的性能和固化周期。以下列出了几个固化剂供参考。但无论选择何种固化剂，该树脂与之合成的塑料体都非常耐用又有强度，并表现出非常低的收缩率、优良的热稳定性和热传导性。由于 UFC5407 中填料的高比重因素，时间越久效果越稳定。使用中 UFC5407 应该每天至少混合一次。若混合出现困难可以加热，最高到 150°F。该树脂为自然色，可以调和色度从白色到淡黄色或者淡灰色，也可以根据需要加颜料调色。UFC5407AS 为 UFC5407 的低版本树脂。

Handling Properties, Typical 工艺特性

Mix Ratio (by weight/ by volume):	(see below)
混合比 (按重量/按体积)	
Color:	natural (off white)
颜色	
Viscosity @77°F (25°C):	150000~250000cps
组粘度 (77°F/25°C, 厘帕斯卡·秒) :	
Specific Gravity @77°F (25°C):	2.15~2.20
比重 (77°F/25°C)	
Cure Schedule:	various
固化时间	

Physical Properties, Typical Cured Performance 物理特性/固化性能

UFC9 Curing Agent \_ An accelerated polyamide hardener for general purpose potting.

UFC9 固化剂\_ 一种加速固化并适于通用灌封的聚酰胺高分子化合物

Mix Ratio:	100:9
混合比	
Pot Life:	30-45 minutes
适用时间	
Thermal Conductivity:	1.67 W/(m*K)
热导性	
Cure:	3-5 days at ambient temperature

固化时间

UFC14 Curing Agent \_ A standard polyamine with reduced vapor pressure. It gives castings with intermediate Tg and excellent chemical resistance.

UFC14 固化剂\_ 这是标准的、低蒸汽压的聚酰胺高分子，可使树脂浇铸件达到中等的玻璃化温度，具有优良的耐化学性。

Mix Ratio: 100:5

混合比

Pot Life: 20-30 minutes

适用时间

Cure: 3-5 days at ambient temperature

固化时间

UFC24 Curing Agent \_ A long pot life cycloaliphatic hardener for high temperature potting. It is an excellent substitute for aromatic hardeners and can generate Tg's in excess of 150°C with post cure.

UFC24 固化剂\_ 是一种化学脂肪族固化剂，适用时间长、高温灌封，也是芳香族固化剂的极好替代品。在固化后期的玻璃化温度可达 150°F。

Mix Ratio: 100:10.5

混合比

Pot Life: 5-6 hours

适用时间

Cure: 2 hours at 82°C plus 2 hours at 121°C

固化时间

UFC35 Curing Agent \_ A trifunctional polyglycol amine. It offers excellent thermal shock resistance with higher Tg.

UFC35 固化剂 \_ 一种三官能聚乙二醇胺高分子，有很强的耐热冲击性和较高的玻璃化温度。

Mix Ratio: 100:14

混合比

Pot Life: 6-8 hours

适用时间

Cure: 4 hours at 82°C

固化时间

UFC61 Curing Agent \_ A standard low viscosity polyamide hardener for general purpose potting. It offers good adhesion to a wide variety of substrates, excellent mechanical properties and flexible mix ratio.

UFC61 固化剂 \_ 一种标准的通用灌注型的低粘度聚酰胺固化剂，与一般范围的许多基质黏合程度都很好，并具有优良的机械性能和弹性的混合比。

Mix Ratio: 100:17-34

混合比

Pot Life: 1-2 hours

适用时间

Cure: 3-5 days at ambient temperature

固化时间

UFC612 Curing Agent \_ A polyglycol amine that offers outstanding electrical properties and thermal shock resistance in combination with low viscosity.

UFC612 固化剂 \_ 也是一种聚乙二醇胺固化剂，低粘度混合物具有超强的导电性和耐热冲击性。

Mix Ratio: 100:10

混合比

Pot Life: 60-90 minutes

适用时间

Cure: 3-5 days at ambient temperature

固化时间

SAFETY INFORMATION: See Materials Safety Data Sheet for UFC5407 for proper storage and handling.

储存及工艺安全信息请另参考《材料安全数据 UFC5407》