



## Freeman 801 Aluminum-Filled Epoxy Casting Resin

### Description

Freeman 801 Aluminum-filled Casting Resin is a low-viscosity, low shrinkage epoxy system that is ideal for foundry patterns, core boxes, fixtures, and vacuum-form tools. The Freeman 801 cures well in thin or thick sections and may be cast up to 3" Thick without excess exotherm.

### Physical Properties

Color (when mixed)	Gray
Mix Ratio (R:H, by wt.)	100:12
Mix Ratio (R:H by vol.)	100:23
Viscosity (cps, mixed)	4,650
Gel Time (min. @ 72°F.)	150
Hardness (Shore D) (ASTM 2240)	86
Deflection Temperature (°F)	142
Tensile Strength (psi) (ASTM D-638)	7,280
Compressive Strength (psi)	12,500
Flexural Strength (psi)	11,590
C.T.E. (in/in/°F)	$3.82 \times 10^{-5}$
Specific Gravity, Mixed (ASTM D-792)	1.70
Demold Time (hrs.)	24
Volumetric Yield (cu. in./ lb.)	16.3
Shrinkage (in/in -ASTM D-2566)	0.002

### Ordering Information

Item Number	Description	Size	Net Wt. Lbs.
055626Q	Freeman 801 Epoxy Casting Resin Only	Quart	2.65
055627Q	Freeman 801 Epoxy Casting Hardener Only	Pint	0.32
055626Q	Freeman 801 Epoxy Casting Resin Only	6-Quart	15.9
055627Q	Freeman 801 Epoxy Casting Hardener Only	6-Pint	1.92
055626Q	Freeman 801 Epoxy Casting Resin Only	5-Gallon	60.0
055627Q	Freeman 801 Epoxy Casting Hardener Only	Gallon	7.20

Physical and mechanical properties of tooling plastics herein reported are typical after a full cure of seven (7) days at room temperature or equivalent. Designated mix ratios must be adhered to for desired results. The user shall determine the suitability of this product for their application and assumes all risks and liabilities associated with the use of this product. The exclusive remedy for all proven claims is replacement of our materials only and in no event shall Freeman Mfg. & Supply Co. be liable for special, incidental, or consequential claims.

READ SAFETY DATA SHEETS AND PRODUCT LABELS BEFORE USING PRODUCT

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