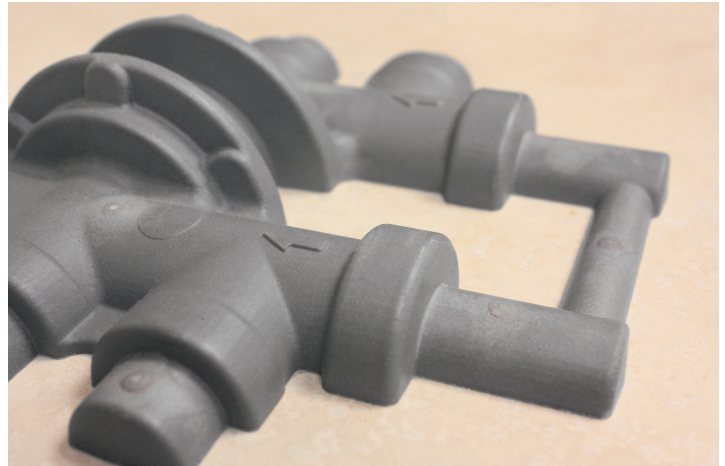




EPOXY CASTING RESINS

ALUMINUM-FILLED, ROOM-TEMPERATURE

Freeman offers a broad, diverse line of pourable epoxy casting resins for the production of foundry patterns, core boxes, molds, fixtures, and tooling. The aluminum-filled resins are gray, readily machinable, and available with higher temperature resistances.



Specifications

	Mix Ratio (by wt.) Resin:Hardener	Mix Ratio (by vol.) Resin:Hardener	Gel Time (min.) @ 72°F	Demold Time (hr.) @ 72°F	Hardness (Shore D)	Mixed Viscosity (cps)	Density (g/cc)	Volumetric Yield (in. ³ /lb.)	Shrink (in./in.)	Compressive Strength (psi)	Flexural Strength (psi)	Tensile Strength (psi)	C.T.E. (in./in./°F)	Deflection Temp. (°F) (264 psi)
<i>Freeman 801 (Discontinued)</i> <i>See Freeman 805 & 821</i>	100:12	100:23	150	24	86	4,650	1.70	16.3	0.002	12,500	11,590	7,280	3.82 x 10 ⁻⁵	142
<i>RenCast 3269 (Discontinued)</i> <i>See Freeman 805 & 821</i>	100:9	100:18	140	24	88	4,300	1.78	15.6	0.001	14,400	13,000	8,700	3.76 x 10 ⁻⁵	171
<i>Epocast 4D-A/951 (Discontinued)</i> <i>See Freeman 805 & 821</i>	100:9	-	60-90	16	91	9,000	1.54	17.9	-	22,000	8,000	-	-	-
Freeman 805	100:18	100:29	150	24	88	9,750	1.47	18.8	0.001	17,200	9,600	8,100	-	200
Freeman 821	7:1	-	85	24	83	6,000	1.83	15.2	0.005	10,150	8,300	4,000	2.70 x 10 ⁻⁵	128
Devcon Plastic Aluminum	9:1	5:1	75	16	85	20,000	1.58	17.5	0.0009	9,820	7,180	-	5.00 x 10 ⁻⁵	250
ASTM	-	-	D-2471	-	D-2240	D-2393	D-792	D-792	D-2566	D-695	D-790	D-638	D-696	D-648

Freeman 805

- ▶ Castable up to ½" thick
- ▶ 150 min. gel time
- ▶ 88 Shore D

Freeman 805 is an aluminum-filled epoxy casting resin that is designed for smaller jobs where the maximum casting thickness is only ½". It works very well for

foundry tooling construction.

Freeman 821

- ▶ Castable up to 4" thick
- ▶ 150 min. gel time
- ▶ 86 Shore D

This economical resin is excellent for making wear resistant core boxes, patterns, and tooling fixtures. Once cured, it features excellent machining and polishing

characteristics. Low shrinkage, long gel time, and lower exotherm enables this material to be poured up to 4" thick.

Devcon Plastic Aluminum

- ▶ 75 min. gel time
- ▶ 24 hr. demold
- ▶ 85 Shore D

This aluminum-filled epoxy is ideal for producing rigid molds, patterns, and holding fixtures that can be machined to a metallic finish as well as drilled or tapped. It is also available in putty form.



ABOUT FREEMAN MANUFACTURING & SUPPLY CO.

Freeman is North America's extensive composites manufacturing materials supplier offering a comprehensive selection of fiberglass and carbon fabric, resins, releases, vacuum-bagging materials, and high-temperature tooling boards. Freeman's 13 locations across North America and dedicated technical team allows for high-quality products and service.

BRANCH LOCATIONS & PUBLIC WAREHOUSES

Freeman has strategically placed satellite locations across North America with customer service representatives ready to help. Thousands of products are stocked at these locations as well as public warehouses to reduce your shipping costs.

STRATEGIC & EFFECTIVE STOCKING SYSTEMS

Freeman's inventory staff constantly monitors sales and stocking data across the country to properly provide the right amount of products at each location.

WORLDWIDE SHIPPING

Freeman ships orders all across the globe and has various international distributors available to supply customers with top-quality products.



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TERMS & CONDITIONS

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