

The Industry's Finest Patternmakers Brushes



Pattern Shop/Foundry Supplies

No. 74 Ox Hair Sign Writers' Brush



This sign writers' brush has pure, soft ox hair that is chisel trimmed, set in rubber and held securely by a nickeled ferrule.

Recommended for fine, small work.

Catalog Number	Bristle Dimensions (Inches)		
	Width	Length	Thickness
840-7404	1/4	13/16	3/32
840-7408	1/2	1	3/16
840-7412	3/4	1-1/8	1/4
840-7416	1	1-1/4	5/16

No. 173 Round Bridled Glue Brush



This glue brush has a double life as the bridle can be removed when bristles wear. The pure gray bristles, plain long wood handle, compressed steel ferrule, and vulcanized setting make it ideal for use in sticky and gummy substances.

Catalog Number	Brush Number	Bristle Dimensions (Inches)	
		Length	Diameter
840-17306	6	1-5/8	1/2
840-17310	10	1-3/4	3/4
840-17314	14	2-1/8	1
840-17318	18	2-3/8	1-1/4
840-17322	22	2-5/8	1-1/2
840-17330	30	3	2

No. 1050 Flat Shellac Brush



This brush can be used with all solvent-thinned coatings, including alkyds, varnishes, and shellacs. This is a low-priced brush for general use. The No. 1050 Flat brush has all china bristles, bright metal ferrules, and red handles.

Catalog Number	Bristle Dimensions (Inches)		
	Width	Length	Thickness
840-105016	1	2-1/4	7/16
840-105024	1-1/2	2-1/2	1/4
840-105032	2	2-3/4	9/16
840-105040	2-1/2	2-3/4	5/8

To Order Specify: (1) Quantity
(2) Catalog Number



The Industry's Finest Patternmakers Brushes

No. 4163 Round Camel Hair Brush



This is a short handled, tapered brush for fine lacquering and marking jobs. Made of pure squirrel hair, cement set and metal bound. It is excellent for use with shellac, varnish, and lacquer.

Catalog Number	Brush Number	Bristle Dimensions (Inches)	
		Length	Diameter
840-41631	1	3/4	5/32
840-41632	2	13/32	3/16
840-41633	3	15/32	7/32
840-41634	4	1	1/4
840-41635	5	1-1/8	9/32
840-41636	6	1-3/16	11/32

No. 6010 "Throwaway Brush"



A low-priced, throwaway brush for applying resin. This brush has white bristles, bright metal ferrule, and plain wood handle.

Catalog Number	Bristle Dimensions (Inches)		
	Width	Length	Thickness
840-601008	1/2	1-3/4	1/4
840-601016	1	1-3/4	5/16
840-601024	1-1/2	1-3/4	5/16
840-601032	2	1-3/4	5/16
840-601048	3	1-3/4	3/8

No. 6215 Flat Shellac Brush



This long handled brush has pure black bristles, and is chisel trimmed with a bright metal ferrule. It is a sign painter's brush, but it is suitable for coating patterns, and it can be used for shellac, varnish, and lacquer.

Catalog Number	Bristle Dimensions (Inches)		
	Width	Length	Thickness
840-621508	1/2	1-1/8	1/4
840-621512	3/4	1-1/2	11/32
840-621516	1	1-7/8	7/16

To Order Specify: (1) Quantity
(2) Catalog Number

Gypsum Cements and Plasters



Low Cost Way to Make Patterns, Molds and Models

Today there is a large variety of specialized scientifically formulated gypsum cements and plasters that meet the tooling needs of the pattern making, foundry, aircraft, automotive, plastic and other related industries. Our products are formulated under carefully controlled conditions and they are rigidly inspected with screen tests for particle size, as well as other tests for iron contamination, set, consistency, porosity and strength.

Tooling with gypsum cements and plasters may be classified into three basic types ... pouring, screeding and splash casting. Combining these three methods offers pattern shops and foundries a quick, accurate and economical way to produce patterns, molds and models.



Cements



Plasters

Product	Normal Consistency: Parts Water to 100 Parts Cement by Weight to Make a Pourable Slurry	Setting Range in Min.	Maximum Expansion Inch/Inch	Average Compressive Strength Pounds Per Square Inch Dry	Catalog Number
HYDROCAL A-11 Gypsum Cement	42	16-20	.00120	5500	970-A11
ULTRACAL 30 Gypsum Cement	38	25-30	.0008	6300	970-U30
NO. 1 CASTING PLASTER	70	27-37	.00200	2000	970-1CAST
NO. 1 MOULDING PLASTER	70	27-37	.00200	2000	970-1MOLD
NO. 1 POTTERY PLASTER	70	27-37	.00210	2000	970-1POT

Hydrocal A-11 Gypsum Cement

**Catalog Number
970-A11**

Hydrocal A-11 Gypsum Cement is a strong, hard, abrasion resistant molding plaster that is a quick setting and has a high tensile strength. Because of its low expansion and great hardness, it is ideal for making patterns for Keller Machines and for general purpose modeling or repairing.

Under normal conditions A-11 Gypsum Cement sets in 16 to 20 minutes. This time can be extended to meet special requirements by use of a setting retardant. Setting expansion is .0012 inch/inch. When completely set this

cement can be machined, drilled or tapped.

It can be mixed thin and poured; or thick and troweled; or to a paste and built up and shaped with a cutting template to any required form.

It is mixed with water only. No special solutions are necessary. It may be used immediately after setting without fear of damage.

Order By the Bag.



Gypsum Cements and Plasters

Ultracal 30 Gypsum Cement

**Catalog Number
970-U30**

Ultracal 30 is the most commonly used gypsum cement. It is recommended where extreme accuracy and additional surface hardness are required as in duplicator models.

It has greater plasticity and more gradual setting action than other gypsum cements which makes it more suitable for build-up or template formed models. Its setting expansion is .0008 inch/inch. It has surface hardness and compressive strength twice as great as other gypsum cements, depending on the percentage of water used.

The color is gray for identification.

No.1 Pottery Plaster

**Catalog Number
970-1POT**

No. 1 Pottery Plaster is a soft plaster made from selected white rock. It is known for outstanding performance and long life.

Setting time is 27 to 37 minutes.

Long Fiber Sisal Hemp

Adds Strength to Plasters

Sisal Hemp is the best known material for reinforcing plasters. The fibers are long, thereby helping to provide added strength to the tooling. Also, the fibers are easily wetted by immersing in the mixed cement or plaster to provide good holding qualities.

(Available in bales – approx. 44 pounds each)

Size	Catalog Number
1 bale	970-S

No. 1 Casting Plaster

**Catalog Number
970-1CAST**

This is a specially formulated plaster with surface hardening additives to develop a hard surface upon drying.

No. 1 Casting Plaster is applicable for less critical work where softer, weaker casts are acceptable. This plaster requires more water in mixing and is consequently lighter, more porous, and from 1/4 to 1/2 as strong as other gypsum cements.

Setting time is 27 to 37 minutes.

No. 1 Moulding Plaster

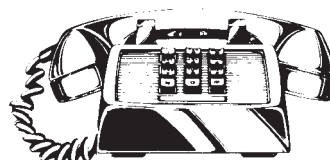
**Catalog Number
970-1MOLD**

This plaster is a soft plastic and contains additives for set control, surface hardness and sinkability. It is a good utility plaster for casting plaques and figurines.

Moulding Plaster generally requires an additional coat of paint to properly seal the mold cast surface.

Setting time is 27 to 37 minutes.

To Order Specify:
 (1) Number of Bags
 (2) Catalog Number



**For Prompt Delivery
Call Toll Free
1-800-321-3170**

Accessories for Plasters



Master™ Plaster Release

Release for Wood, Metal or Plastic

MASTER Plaster Release is a liquid that can be brushed or applied with a cloth for releasing plaster from wood, metal and plastic. Only a thin film is necessary to produce highly satisfactory results. However, if a more lasting finish is desired, a heavier coating of the release may be applied.



Size	Catalog Number
1 gallon	922-PR1G

To Order Specify: (1) Quantity
(2) Catalog Number

Master™ Flexible Mixing Bowls

Ideal for Handling Gypsum Cement and Plaster

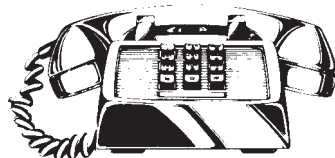


MASTER Mixing Bowls are practically indestructible in the service for which they are intended. They are flexible so that the "set" contents can be cracked off the surface of the bowl without damaging the bowl itself. They are not subject to corrosion or affected by water.

Their light weight makes them easy and comfortable to handle. These bowls can be bent into any shape to facilitate pouring.

Size	Diameter (Inches)	Volume	Catalog Number
Small	3	1/4 Pint	990-B033
Medium	4	3/4 Pint	990-B034
Large	4-1/2	1-1/4 Pint	990-B0345
Extra Large	6	1-1/2 Quart	990-B036
Jumbo	8	5 Quart	990-B038

To Order Specify: (1) Quantity
(2) Catalog Number



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