



## Enhanced Specimen Preparation

Prepare Multiple Samples | High Visibility Chamber | Easy To Use

**2 year warranty**

Limited warranty

### SPECIFICATION    TeraVAC DESCRIPTION

Bell jar	Tilting, retractable pouring arm
Mount sizes	1, 1.25, 1.5 and 2-inch (25, 30, 40 and 50 mm) *Accommodable with larger and smaller sizes*
Vacuum	Vacuum pump (sold separately)
Dimensions (W*D*H)	12 x 12 x 12-inch (300 x 300 x 300 mm)
Weight	2.2 lbs (1 kg)



### Superior Void Filling

Introducing the TeraVAC, Vacuum Mounting Chamber, engineered to efficiently fill voids in specimens. It works by first pulling a vacuum and then pouring the resin—whether epoxy, acrylic, or polyester into the chamber ensures optimal penetration into voids, pores, cracks, and crevices. The controlled and gradual pressure increment further enhances resin infiltration, ensuring that every part of the specimen is adequately filled. This meticulous preparation method results in specimens that are exceptionally well-prepared, which makes it an invaluable tool for any laboratory.

DESCRIPTION	110V VACUUM PUMP	220V VACUUM PUMP
Flow Rate	2 CFM (48 liters / minutes)	2 CFM (48 liters / minutes)
Ultimate Vacuum	50 micron	50 micron
Power	110-120V - 0.25 hp	110-120V - 0.25 hp
Inlet Port	1/4" SAE and 1/2" ACME ports	1/4" SAE and 1/2" ACME ports
Dimensions (WxDxH)	5 x 12 x 9.6-inch (130 cm x 310 cm x 240 cm)	5 x 12 x 9.6-inch (130 cm x 310 cm x 240 cm)
Weight	13.7 lbs (6.2 kg)	13.7 lbs (6.2 kg)
Catalog Number	VAC-110	VAC-220

### Precision and Efficiency in Metallographic Preparation

The TeraVAC Vacuum Mounting Chamber is meticulously engineered to enhance resin penetration, crucial for metallographic specimen preparation. By facilitating resin pouring under vacuum conditions, this unit ensures optimal infiltration into voids, pores, and cracks. Its design is ideal for a wide range of materials, providing precise and efficient specimen treatment. The user-friendly interface, coupled with robust durability, makes it an indispensable tool for any laboratory striving for excellence in metallographic analysis.

### Optimized Sample Penetration with the TeraVAC

The TeraVAC Vacuum Mounting Chamber enhances resin infiltration into metallographic specimens, significantly improving edge retention and detail resolution. Its vacuum pouring capability ensures thorough penetration into pores and cracks. It can process multiple specimens simultaneously, ideal for high-volume laboratories. Economically priced, robust, durable design guarantees long-lasting performance, making the TeraVAC an excellent investment for high-quality metallographic specimen preparation.



### Acrylic Castable Mounting:

Castable acrylics are easy to use and are very robust. The main advantage of mounting with castable acrylics is the fast curing time. Depending upon the mixing ratio, castable acrylic mounts are typically ready to use within 8-15 minutes. Also unlike epoxy resins, the ratio of the various acrylic parts (powder to liquid) can be altered up to 25% with no adverse effects to the final properties of the mount. This is because both the liquid and powder are acrylics containing various additives and curing agents. By varying the ratio of the liquid to powder, the curing time and viscosity can be altered.



CASTAMOUNT Acrylic kit



CASTAMOUNT Acrylic Liquids

### ACRYLIC PLUS Acrylics Castable Mounting

#### CATALOG#

ACRYLIC PLUS Castable Mounting Resin Kit  
(1 lb resin with 12 oz liquid hardener)

**ACYP-5000-K1**

ACRYLIC PLUS Castable Mounting Resin Kit  
(5 lbs resin with 1/2 gallon liquid hardener)

**ACYP-5000-K5**

### ACRYLIC PLUS Acrylic Powders

ACRYLIC PLUS Resin powder (1 lb)	<b>ACYP-5000-P1</b>
ACRYLIC PLUS Resin powder (5 lb)	<b>ACYP-5000-P5</b>
ACRYLIC PLUS Resin powder (25 lbs)	<b>ACYP-5000-P25</b>
ACRYLIC PLUS Resin powder (100 lbs)	<b>ACYP-5000-P100</b>

### ACRYLIC PLUS Acrylic Liquids

ACRYLIC PLUS Resin hardener (12 oz)	<b>ACYP-5000-H12</b>
ACRYLIC PLUS Resin hardener (32 oz)	<b>ACYP-5000-H32</b>
ACRYLIC PLUS Resin hardener (1/2 gallon)	<b>ACYP-5000-H64</b>
ACRYLIC PLUS Resin hardener (1 gallon)	<b>ACYP-5000-H128</b>
ACRYLIC PLUS Resin hardener (5 gallons)	<b>ACYP-5000-H640</b>

### Silicon Rubber Molds

1.0-inch diameter Silicone Rubber Molds - 3/pkg	<b>RMOUNT-0100</b>	<b>RMOUNT-0100C</b>
1.25-inch diameter Silicone Rubber Molds - 3/pkg	<b>RMOUNT-0125</b>	<b>RMOUNT-0125C</b>
1.5-inch diameter Silicone Rubber Molds - 3/pkg	<b>RMOUNT-0150</b>	<b>RMOUNT-0150C</b>
2.0-inch diameter Silicone Rubber Molds - 3/pkg	<b>RMOUNT-0200</b>	<b>RMOUNT-0200C</b>
2.75 x 1-1/2 x 7/8-inch (70 x 39 x 22 mm) Silicone Rubber Molds	<b>RMOUNT-315R</b>	<b>RMOUNT-315C</b>
3 x 2 x 7/8-inch (76 x 51 x 22 mm) Silicone Rubber Molds	<b>RMOUNT-315R</b>	<b>RMOUNT-302C</b>

### Acrylic Castable Mounting

#### CATALOG

CASTAMOUNT Acrylic kit (1 lb resin with 12 oz liquid hardener)	<b>AK-5000-K1</b>
CASTAMOUNT Acrylic kit (5 lbs resin with 1/2 gallon liquid hardener)	<b>AK-5000-K5</b>
<b>CASTAMOUNT Acrylic Powders</b>	
CASTAMOUNT Acrylic powder (1 lb)	<b>AR-5000-P1</b>
CASTAMOUNT Acrylic powder (5 lb)	<b>AR-5000-P5</b>
CASTAMOUNT Acrylic powder (25 lbs)	<b>AR-5000-P25</b>
CASTAMOUNT Acrylic powder (100 lbs)	<b>AR-5000-P100</b>

### CASTAMOUNT Acrylic Liquids

CASTAMOUNT Acrylic hardener (12 oz)	<b>AH-5000-H12</b>
CASTAMOUNT Acrylic hardener (32 oz)	<b>AH-5000-H32</b>
CASTAMOUNT Acrylic hardener (1/2 gallon)	<b>AH-5000-H64</b>
CASTAMOUNT Acrylic hardener (1 gallon)	<b>AH-5000-H128</b>
CASTAMOUNT Acrylic hardener (5 gallons)	<b>AH-5000-H640</b>

### SUPERMOUNT Glass Filled Acrylics Castable Mounting

#### CATALOG#

SUPERMOUNT Glass Filled Acrylic Kit (gray) (1 lb resin with 12 oz liquid hardener)	<b>GKAK-5000-K1</b>
SUPERMOUNT Glass Filled Acrylic Kit (gray) (5 lbs resin with 1/2 gallon liquid hardener)	<b>GKAK-5000-K5</b>

### SUPERMOUNT PLUS Acrylic Powders

ACRYLIC PLUS Resin powder (1 lb)	<b>GRAR-5000-P1</b>
ACRYLIC PLUS Resin powder (5 lb)	<b>GRAR-5000-P5</b>
ACRYLIC PLUS Resin powder (25 lbs)	<b>GRAR-5000-P25</b>
ACRYLIC PLUS Resin powder (100 lbs)	<b>GRAR-5000-P100</b>

### SUPERMOUNT Acrylic Liquids

SUPERMOUNT Resin hardener (12 oz)	<b>GRAH-5000-H12</b>
SUPERMOUNT Resin hardener (32 oz)	<b>GRAH-5000-H32</b>
SUPERMOUNT Resin hardener (1/2 gallon)	<b>GRAH-5000-H64</b>
SUPERMOUNT Resin hardener (1 gallon)	<b>GRAH-5000-H128</b>
SUPERMOUNT Resin hardener (5 gallons)	<b>GRAH-5000-H640</b>



Silicon Rubber Molds

### Epoxy Castable Mounting:

The most common and best performing castable resins are epoxy based. Epoxy resins are typically two-part liquid systems consisting of a resin and hardener. Mixing ratios vary depending upon the volume of the mixture or the mount size. Larger mounts require a ratio of less hardener to resin. The advantages of mounting with epoxy resins include:

- Low shrinkage
- Relatively clear
- Relatively low exotherm
- Excellent adhesion
- Excellent chemical resistance
- Good hardness
- Relatively inexpensive



Standard Epoxy Cure

### Quick Mounting Epoxy Resins

### CATALOG#

Quick Mounting fast epoxy castable resin (32 oz)	<b>ERF-3000-32</b>
Quick Mounting fast epoxy castable resin (1 gallon)	<b>ERF-3000-128</b>
Quick Mounting fast epoxy castable resin (5 gallons)	<b>ERF-3000-5G</b>

### Quick Mounting Epoxy Hardeners

Quick Mounting fast epoxy hardener (8 oz)	<b>EHF-3000-08</b>
Quick Mounting fast epoxy hardener (32 oz)	<b>EHF-3000-32</b>
Quick Mounting fast epoxy hardener (1 gallon)	<b>EHF-3000-128</b>



Specimen Mounting Clips



Paper Mixing cups



### Castable Mounting Accessories

### CATALOG#

1-gallon castable pump dispenser	<b>ED-3000-01</b>
1.25-inch specimen storage container - 25/pkg	<b>STORE-0125</b>
Mold release (8 oz)	<b>MR-1000-08</b>
Mold release (16 oz)	<b>MR-1000-16</b>
Metal MKLIP Spring mounting clip (100/pkg)	<b>MKLIP-0100</b>
Plastic SKLIP Spring mounting clip (100/pkg)	<b>SKLIP-0100</b>
Plastic KLIP specimen mounting clip (100/pkg)	<b>KLIP-0100</b>
Plastic MULTICLIP specimen mounting clip(100/pkg)	<b>MULTICLIP-0100</b>
Plastic UNIKLIP specimen clips (100/pkg)	<b>UNIKLIP-0100</b>
3 oz Graduated Paper Mixing cups ( 100/pkg)	<b>MCUPS-0100</b>
9 oz Plastic Mixing Cups (50/pkg)	<b>PCUPS-050</b>
Vacuum Impregnator Pouring cups (50/pkg)	<b>POUR-CUP-050</b>

### Standard Epoxy Resin

### CATALOG#

Epoxy castable resin (32 oz)	<b>EP-3000-32</b>
Epoxy castable resin (1 gallon)	<b>EP-3000-128</b>
Epoxy castable resin (5 gallons)	<b>EP-3000-5G</b>

### Standard Epoxy Hardeners

Epoxy hardener (8 oz)	<b>EH-3000-08</b>
Epoxy hardener (32 oz)	<b>EH-3000-32</b>
Epoxy hardener (1 gallon)	<b>EH-3000-128</b>

### EPOXY PLUS Resin

Epoxy castable resin (32 oz)	<b>EP-3000-32P</b>
Epoxy castable resin (1 gallon)	<b>EP-3000-128P</b>
Epoxy castable resin (5 gallons)	<b>EP-3000-5GP</b>

### Epoxy PLUS Hardeners

Epoxy hardener (8 oz)	<b>EH-3000-08P</b>
Epoxy hardener (32 oz)	<b>EH-3000-32P</b>
Epoxy hardener (1 gallon)	<b>EH-3000-128P</b>

### ULTRATHIN 2 Low Viscosity Epoxy Resins

Low Viscosity castable epoxy resin (32 oz)	<b>ULTRA-3000R-32</b>
Low Viscosity castable epoxy resin (1 gallon)	<b>ULTRA-3000R-128</b>
Low Viscosity castable epoxy resin (5 gallons)	<b>ULTRA-3000R-5G</b>

### ULTRATHIN 2 Low Viscosity Epoxy Hardeners

Low Viscosity castable epoxy hardener (8 oz)	<b>ULTRA-3000H-08</b>
Low Viscosity castable epoxy hardener (32 oz)	<b>ULTRA-3000H-32</b>
Low Viscosity castable epoxy hardener (1 gallon)	<b>ULTRA-3000H-128</b>

### ULTRATHIN 2 PLUS Low Viscosity Epoxy Resins

Low Viscosity castable epoxy resin (32 oz)	<b>ULTRA-3000R-32P</b>
Low Viscosity castable epoxy resin (1 gallon)	<b>ULTRA-3000R-128P</b>
Low Viscosity castable epoxy resin (5 gallons)	<b>ULTRA-3000R-5GP</b>

### ULTRATHIN 2 PLUS Low Viscosity Epoxy Hardeners

Low Viscosity castable epoxy hardener (8 oz)	<b>ULTRA-3000H-08P</b>
Low Viscosity castable epoxy hardener (32 oz)	<b>ULTRA-3000H-32P</b>
Low Viscosity castable epoxy hardener (1 gallon)	<b>ULTRA-3000H-128P</b>



Vacuum Impregnator  
Pouring cups



ULTRATHIN 2 Low Viscosity  
Epoxy Resins & Hardeners