



The art and science of lost wax casting.



Casting Investment Powder











KerrCast 2000™

Satin Cast 20™

Satin Cast Diamante™

Satin Cast Xtreme™

Supervest 20™



Kerr Casting Investments

Don't waste valuable time polishing rough finishes or recasting. Kerr Casting Investments are manufactured to exacting standards. With a tradition of over 100 years, Kerr is committed to meeting the demands of today's casting needs.

Kerr's renowned product, Satin Cast, is recognized by the world's finest jewelers as the investment that creates the finest results. Eliminating bubbles, inclusions and fins, Satin Cast is a dependable investment that delivers superior quality castings every time.



Platinite™

G-400TM

Satin Cast 20 is available in easy-to-handle 15kg / 33lb cartons.

Research

Kerr's Investment products offer application specific formulations utilizing only the highest quality raw materials, to deliver a superior level of strength and accuracy. Decades of research and quality control has produced materials that deliver consistent results to meet the demands of today's changing industry.

Casting Investment Application Chart

Product	Application
KerrCast 2000	Gold and silver.
Satin Cast 20	Highest quality gold and silver.
Satin Cast Diamante	Highest quality stone in place.
Satin Cast Xtreme	Highest quality white gold.
Supervest 20	Gold and silver, large items.
Platinite	Platinum and stainless steel.
G-400	Aluminum.

Ordering

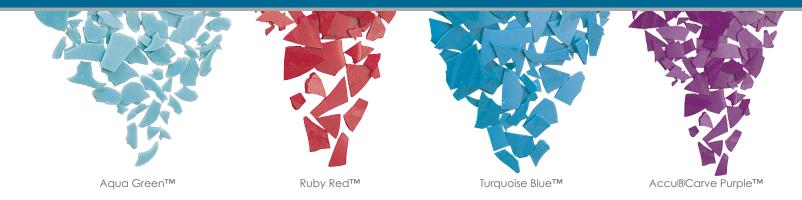
07960 Satin Cast 20, 45 kg 31009 Satin Cast 20, 15 kg 31723 Satin Cast 20, 2 kg (6pk)

31312 Satin Cast Diamante, 45 kg 25219 Satin Cast Xtreme, 45 kg

27746 KerrCast 2000, 45 kg 14169 Supervest 20, 45 kg

27778 Platinite, 36 kg 20743 G-400, 45 kg





Accu®Flakes™, Accu®Beads™

Designed for platinum, gold, silver as well as industrial and dental alloys, AccuFlakes injection wax has set the standard in precision casting for years. With the lowest ash content available (0.003%), AccuFlakes and AccuBeads guarantee the cleanest burnout possible. Available in 8 application-specific colors in quick-melting Flake or Bead form.

Injection Wax Application

Product	Injection Ter
Aqua Green	65°C/150°F
Ruby Red	65°C/150°F
Turquoise Blue	65°C/150°F
NYC Pink	68°C/155°F
Flex Plast Blue	68°C/155°F
Tuffy Green	73°C/165°F
Super Pink	65°C/150°F
AccuCarve Purple	79°C/174°F









NYC Pink™



Tuffy Green™



Super Pink™

Ordering

AccuFlakes, 23 kg

13360 Aqua Green 14079 Rub Red 14293 Turquoise Blue 18428 NYC Pink 23020 Flex Plast Blue 16181 Tuffy Green 12138 Super Pink 32456 AccuCarve Purple

Chart

Application

All purpose. Most popular.
All purpose. Most popular.
All purpose. Most popular.
Highest detail. For filigree.
Most flexible. For stone in place.
Toughest. For large models.
Quick solidification. For bezels.
Highest carvability.







AccuBeads, 23 kg

33497 Aqua Green 33498 Ruby Red 33499 Turquoise Blue 33500 NYC Pink 33501 Flex Plast Blue 33502 Tuffy Green 33503 Super Pink 33504 AccuCarve Purple









Accu®Carve™ Carving Waxes

Designed for descriminating wax designer, AccuCarve precision carving waxes are specially formulated for hand carving as well as machining. They resist clogging of cutting tools and files.

Available in 3 degrees of hardness.

Green - Hardest

Purple - Medium hardness

Blue - Regular (most flexible)

Suggested Burnout

Preheat the furnace to 300°F. Place the flask in furnace on a wax burnout tray, and hold temperature to 450°F for one hour. Check to ensure the wax has drained into the tray.

Remove the wax tray leaving the flask in the furnace to continue with normal burnout cycle.



Solid Bar							
Juliu Bul							
7/8"							
34858 Green							
34859 Purple							
34860 Blue							
1-1/16"							
34861 Green							
34862 Purple							

34863 Blue

Round	l Tube
7/8"	
34864	Gree
34865	Purple
34866	Blue
1-1/16	"
34867	Gree
34868	Purple
34869	Blue

Tiai biac	
1 x 1"	1-1/8" x 1/8"
34873 Green	34879 Green
34874 Purple	34880 Purple
34875 Blue	34881 Blue
1-1/8" x 1"	1-5/16" x 1-3/16'
34876 Green	34882 Green
34877 Purple	34883 Purple
34878 Blue	34884 Blue

Flat Side



3 Piece Bar Kit, 1/2 lb
Kit with 3 wax bars measuring
1-7/8" x 1-1/8" x 3-1/8"
34897 Green
34898 Purple
34899 Blue



Block, 1/2 lb Wax block measuring 1-7/16" x 3-1/8" x 3-3/8" 34885 Green 34886 Purple 34887 Blue



Block, 1 lb Wax block measuring 1-7/16" x 3-1/8" x 6-1/2" 34888 Green 34889 Purple 34890 Blue



Slices Asst., 1/2 lb
Assorted slices measuring
1-7/16" x 3-1/8" with
thicknesses from 1/8" to 1/2"
34894 Green
34895 Purple
34896 Blue



Slices Asst., 1 lb Assorted slices measuring 1-7/16" x 3-1/8" with thicknesses from 1/8" to 1" 34891 Green 34892 Purple 34893 Blue



Kerr has been a manufacturer of precision waxes for over 50 years, providing consistent quality, application specific waxes for today's critical casting needs.



Sticky

A hard, fast setting wax. Repairs wax patterns and welds waxes together. Melts at 73°C/163°F. 00623 15 Sticks 00625 120 Sticks



Round Wire Spool

Easy to form wax wire used for producing various bars, sprues an prong

11017 14 ga 11018 16 ga 11019 18 ga 11020 20 ga



Boxing Strips

A tacky wax that results in perfect adhesion without the application of heat. Melts at 80°C/176°F. 00609 Strips, box/35



Boxing Sticks

A tacky wax that results in perfect adhesion without the application of heat. Melts at 80°C/176°F. 00608 Sticks. box/42





Blue Inlay

A superior build-up wax for making patterns. Melts at 73°C/163°F. 00474 Regular, 15 Sticks 00475 Regular, 120 Stick 00476 Hard, 15 Sticks 00478 Hard, 120 Sticks



Green Inlay

A superior buildup wax for making patterns. Melts at 73°C/163°F. 00480 Hard, 120 Sticks

Perfect Purple

A unique inlay casting wax formulated especially for wax pattern build-ups requiring hard smooth surfaces in an easy-to use wax. Melts at 73°C/163°F.

11493 1 oz bar



Ivory Inlay

A superior build-up wax for making patterns. Melts at 73°C/163°F. 00481 Regular, 15 Sticks



Disclosina

A creamy wax used to repair wax pattern defects. Applies easy to finger or tool. 35118 Ivory, 57 a



Utility Rod White

Tacky at room temperature, once applied it will adhere without heat. 09731 White, Round, 1 lb 09732 White, Square, 1 lb



Utility Rod Red

Tacky at room temperature, once applied it will adhere without heat. 09733 Red. Round. 1 lb



Utility Sheet Red

Tacky at room temperature, once applied it will adhere without heat. 00627 Red. Sheet. 1/2 lb



Laboratory Solutions

A comprehensive line of application specific Separators, Surfactants, Die Lubricants and Solvents designed for your most crucial applications. Proven quality formulas that have been industry standards for over 30 years. Available in easy to use 8 oz spray bottles, and larger 32 oz refills.



Debubblizer

A surface tension reducing agent that allows investment to flow uniformly to all portions of the wax pattern. For use when hand mixina. 22320 8 oz Sprav 22321 32 oz Refill





A surface tension reducing agent developed specifically for investing under vacuum. Eliminating bubbles on the casting.

22327 8 oz Sprav 22328 32 oz Refill



Super-Sep

An alocohol-based die separating fluid that dries on contact. Plaster, stone or investment can be poured against it immediately.

22325 8 oz Spray 22326 32 oz Refill



Microfilm

A non-oily, water-soluble die lubricant that allows a wax pattern to be removed without distortion. Allows for quick and clean separation. 22322 8 oz Spray

22323 32 oz Refill



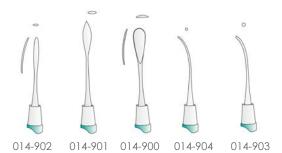
Laboratory Solitine

A solvent designed for cleaning and finishing wax patterns to a smooth surface. Also removes wax from wax injectors, wax pots and other tools.

00516 4 oz 22324 8 oz Spray

Two Part Wax Carvers

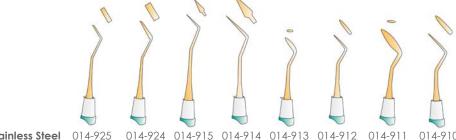
Innovative wax sculpturing instruments that are customize able by connecting two halves to create the ideal instrument for your particular need. Each half includes a connector screw. Instruments feature soft hexagonal silicone grips, and offer the option of Stainless Steel or Titanium Nitride coated blades for added strength to withstand higher temperatures.



Set of 3 Waxing Instruments

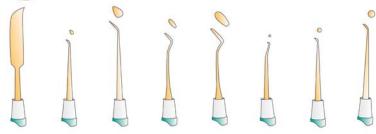
Commonly used set, contains: Large Scoop, 1/2 hollenback Reg., Small Scoop, Small Cleoid, Large Discoid, Small Discoid.

Large Discoid, Small Discoid.
014-965 Titanium Nitride
014-935 Stainless Steel



 Stainless Steel
 014-925
 014-924
 014-915
 014-914
 014-913
 014-912
 014-911
 014-910

 Titanium Nitride
 014-955
 014-954
 014-945
 014-944
 014-943
 014-942
 014-941
 014-940



 Stainless Steel
 014-916
 014-923
 014-922
 014-921
 014-920
 014-919
 014-918
 014-917

 Titanium Nitride
 014-946
 014-953
 014-952
 014-951
 014-950
 014-949
 014-948
 014-947



Ultra-Waxer 2

The ultimate electronic waxer just got better, with dual spatulas for increased productivity, convenient tip holder for convenience and organization, and easy to use menu functions, such as programmable presets and quick heat function. Includes 2 Ultra-Spatulas and 2 Tips (Small PKT # 35167 and Large PKT #35168). Dual Voltage 100/240 Vac. Item 34844

Ultra-Spatula and Tips

The Ultra-Waxer 2 still features an all aluminum, light weight Spatula, with interchangeable heating tips. The Ultra-Tips are color coded for quick identification, foam gripped for ultimate comfort, and the ability to change the tip while still hot.

35167 Small PKT, Blue 35168 Large PKT, Teal

35169 Beavertail, Purple

35170 Small #7, Grey

35171 Large #7, Green

35172 Needle, Red

35173 1/2 Hollenback, Black

35174 Small Denture, Pink

35175 Large Denture, Orange

35176 Denture Spoon, Yellow

35177 Ultra-Spatula, Cord/Handle



MasterTouch

A versatile wax pen offering excellent wax control in pattern build-up and spruing. Exclusive feature offers instant tip heating and cooling when used with the optional foot control. Includes handpiece, foot control, and 2 tips (21878 and 21887). Dual voltage unit

22129 Master Touch Kit 21871 Cord/Handle

MasterTouch Tips

Tips feature Nichrome wire tips with immediate heating and cooling. Tips have snap-n design that allows for easy and safe removal.

21874 20 ag. Long Bent

21876 20 ga, Bent

21877 22 ga, Bent

28788 24 ga, Bent

21879 28 ga, Bent

21887 20 ga, Rolled Flat Spatula

21888 22 ga, Rolled Flat Spatula

25780 22 ga, Pointed







Smoothy

The Smoothy produces a flameless iet stream of heated air and is ideal for the final stages of wax pattern sculpturing. Only 15 cm long, the Smoothy is held like a pencil and the hot air jet is passed over the surfaces of wax patterns to produce smooth, scratch free contours. The Smoothy can also be used as a mini-torch producing pencil point flame with temperatures up to 2300°F (1260°C), suitable for soldering precious metals, addina contacts and minor castina repairs. Operates on standard butane fuel and is UL registered. Supplied with one Crown and Bridge Finishing tip.

Item 013-950





Centrifico

The Kerr Centrifico is a well made, precision casting machine that has been the industry standard for decades. It comes complete with accessories to cast all rings up to 3-1/2" diameter by 2-5/8" high, and features a Cast-R-Knob for easy and safe winding of the arm, heavy duty spring, and heavy duty construction.

00009 Centrifco Casting Machine 33703 Cast-R-Knob Spin Knob 15550 Casting Well

Clay Crucibles

Quality made, industry standard clay crucibles for all of your casting needs.

00027 (1 oz) 2 pk 00028 (2.5 oz) 12194 (2.5 oz) Quartz 09508 (7 oz) 15027 (12 oz) 11605 (20 oz)



Zircon Alumina Crucibles

Non contaminating, slotted crucibles for use with all alloys. Flat trough easily holds 30 dwt. of alloy. Color coded for use with specific metals to prevent cross contamination.

010-101 Yellow 010-103 Pink 010-105 Blue 010-001 White



Furnace Markers

Self sharpening, high temperature ferrous markers for casting molds. Will not burn away during burnout. 007-935 Yellow, marks flask 007-936 Brown, marks investment





Stainless Steel Flasks 00016 1C, 1-1/4" Dia. 00018 2C, 1-3/4" Dia. 32970 3C, 2-1/2" Dia. 00020 4C, 3-3/8" Dia.



Rubber Sprue Bases 32401 T1, 1-1/4" Dia. **13989** T2, 1-3/4" Dia. **32969** T3, 2-1/2" Dia. **13247** T4, 3-3/8" Dia.

Touchsteam

Portable yet a workhorse, the Touchsteam Portable Steamer is perfect for any size lab for the elimination of film residue from soaps and ultrasonic cleaners. Also ideal for cleaning and neutralizing metal frameworks prior to porcelain application, removing pencil marks and polishing compound from models and dies, as well as cleaning porcelain before glazing. Heavy-duty stainless steel construction with a one gallon tank, and a cool-grip handpiece with interchangeable nozzles. It features a unique self-regulating pressure cap, and requires no plumbing. Footprint dimensions are 9" x 12", and weights less than 30 lbs when full.

An innovative Catch Tray system is available separately, allowing the user to control the spray and collect excess water in a connected reservoir. This allows even more portability - as it does not need to be placed near a sink.

33405 Touchsteam 110V 33406 Touchsteam 230V 33473 Catch Tray









Electro-Melt™

Electro-Melts are a line of compact electric furnaces for melting metals. They are designed to be hand-held for easy pouring of the metal directly from the furnace. This makes them ideal for use in casting, reclaiming, alloying and refining metals.

Electro-Melts are automatic and feature electronic controllers for extremely precise melting of metal, including high-karat gold. The electronic feature regulates the temperature by providing full power input to the furnace until a selected temperature is attained, and will hold the temperature to a +/- 5°F/3°C. Maximum temperature 1120°C/2050°F.

Standard Electro-Melt (1 kg)

Melting Capacity:
Gold - 930 g / 30 Troy oz
Silver - 775 g / 25 Troy oz
21 minutes to 982°C/1800°F

31809 120V **31808** 230V





Electro-Melts are supplied with a graphite stirring rod and a graphite crucible which provides a reducing atmosphere during melting.

Maxi Electro-Melt (3 kg)

Melting Capacity:
Gold - 3.1 kg / 100 Troy oz
Silver - 2.6 kg / 83 Troy oz
31 minutes to 982°C/1800°F

31811 120V **31810** 230V



Super Flux

A special jewelers compound for fluxing precious metals when torch melting or furnace melting. 8 oz / 226 g jar. 12067

Graphite Crucibles

Designed for Kerr Electro-Melts, these graphite crucibles provide maximum resistance to oxidation while metal is being melted.

29478 30 oz / 1 kg (Standard) **29479** 100 oz / 3 kg (Maxi)





Instruction / Investment

Investment Mixing Instructions for Satin Cast Series, KerrCast 2000 and Supervest 20



1. Weigh investment.



2. Measure water.



3. Add investment to water.



4. Mix 3 to 3-1/2 minutes.



5. Vacuum 20 seconds after boil.



6. Pour into flask.



7. Vacuum up to 90 seconds.



8. Let flasks sit still for 2 hours.



9. Preheat furnace 300°F / 149°C. (for multiple flasks do not preheat)



10. Remove sprue base.



11. Load into furnace.



12. Follow appropriate burnout cycle.

Investment Troubleshooting

Condition	Causes / Corrections
"Fins" or flash on casting (added thin metal extensions)	Incorrect water/powder ratio causing weak investment mold, investment improperly stored, investment extended past work time, flasks disturbed too soon, flasks heated too rapidly
"Non-fills" (incomplete castings)	Pattern improperly sprued (too thin or too few), incomplete wax burnout, mold too cool when cast, metal too cool when cast, insufficient metal by weight
Porous castings (fine cavities in metal)	Pattern improperly sprued, incomplete wax burnout, metal overheated, mold too hot, too much "old" metal (never use more than 50%), metal insufficiently fluxed, too much flux added to metal
Foreign particle inclusions	Sharp corners and bends in sprue system, flask placed in furnace too soon, flask heated too fast
Spauling (portion of investment in mold)	Sharp corners and bends in sprue system, flask placed in furnace too soon, flask heated too fast, investment handled past work time
Bubbles / Nodules	Wax patterns not painted with wetting agent, slurry not sufficiently mixed, vacuum in need of pump oil
Rough Surface	Roughness on wax pattern, pattern improperly sprued, incorrect water/powder ratio
Watermarks (grainy surface)	Investing too rapidly, incorrect water/powder ratio, investment handled past work time



Investment Recommended Water / Powder Ratios





To determine the number of pounds of investment needed to fill any particular flask, divide the cubic inch content of the flask by 20.
(1 lb = 454 grams).

To determine flask content in cubic inches:

Round Flask:

0.7854 x dia. 2 x height

Square Flask:

width x length x height

Heavy Castings

Heavy Ladies Rings,
Men's Rings & School Rings

38 ml water to 100 g powder

Regular Castings

Ladies Rings, Pendants,
Filigree & Intricate Wax Patterns
40 ml water to 100 g powder

Weight / lbs.	grams	Water av. oz	ml	Yields cubic inch	Yields cubic cent.	Water av. oz.	ml	Yields cubic inch	Yields cubic cent.
1/2	227	3.0	86	10.5	174	3.2	91	11	179
1	454	6.1	172	21	349	6.4	182	22	359
5	2268	31	862	107	1745	32	908	110	1794
10	4535	61	1724	213	3490	64	1816	219	3589
15	6803	92	2586	320	5235	96	2724	329	5383
20	9070	122	3448	426	6980	128	3632	438	7178
25	11338	153	4310	533	8725	160	4540	548	8972

Investment Powder & Water Requirements for Flask Sizes

Top Figure - Investment Powder (oz), Bottom Figure - Water (ml)

Regular Castings

Ladies Rings, Pendants,
Filigree & Intricate Wax Patterns
40 ml water to 100 g powder

Heavy Castings

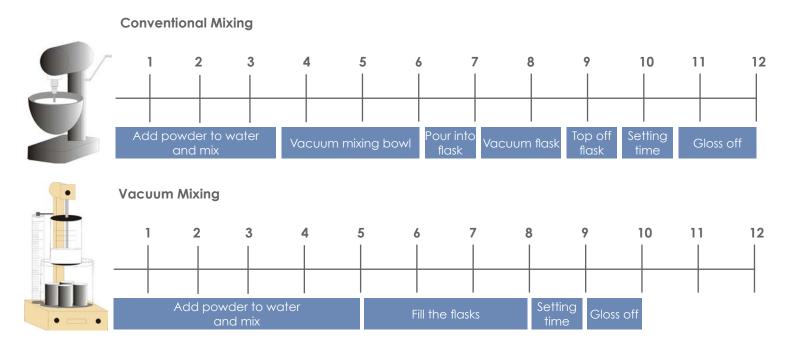
Heavy Ladies Rings, Men's Rings & School Rings

38 ml water to 100 g powder

Flask Diameter	Height 2"	2.5"	3"	3.5"	4"	5"	6"	2"	2.5"	3"	3.5"	4"	5"	6"
2"	5 oz 57 ml	6 oz 68 ml	7.5 oz 85 ml	9 oz 102 ml	10 oz 114 ml			5 oz 53.9 ml	6 oz 64.6 ml	7.5 oz 80.8 ml	9 oz 97 ml	10 oz 107.8 ml		
2.5"	8 oz 91 ml	10 oz 114 ml	12 oz 136 ml	14 oz 160 ml	16 oz 183 ml	20 oz 228 ml		8 oz 86.2 ml	10 oz 107.8 ml	12 oz 129 ml	14 oz 150.9 ml	16 oz 172.5 ml	20 oz 215.6 ml	
3"	12 oz 136 ml	15 oz 170 ml	18 oz 205 ml	21 oz 240 ml	1.5 lb 274 ml	30 oz 340 ml	32 oz 410 ml	12 oz 129.3 ml	15 oz 161.7 ml	18 oz 194 ml	21 oz 226.4ml	1.5 lb 258 ml	30 oz 323 ml	32 oz 345 ml
3.5"	1 lb 182 ml	1.25 lb 228 ml	1.5 lb 274 ml	1.75 lb 320 ml	2 lb 364 ml	2.5 lb 456 ml	3 lb 548 ml	1 lb 172 ml	1.25 lb 215 ml	1.5 lb 258 ml	1.75 lb 301 ml	2 lb 344 ml	2.5 lb 430 ml	3 lb 516 ml
4''	18 oz 205 ml	23 oz 262 ml	27 oz 308 ml	2 lb 364 ml	2.25 lb 410 ml	3 lb 546 ml	3.5 lb 637 ml	18 oz 194 ml	23 oz 247.9 ml	27 oz 291 ml	2 lb 344 ml	2.25 lb 387 ml	3 lb 516 ml	3.5 lb 602 ml
5''					3.75 lb 682 ml	4.75 lb 864 ml	5.5 lb 1000 ml					3.75 lb 645 ml	4.75 lb 817 ml	5.5 lb 946 ml



Recommended Work Time - In Minutes



Work Time: Work time is the time that has elapsed between adding the powder to the water, and when the investment thickens. **Water Temperature:** Water should be 70°F / 21°C to 75°F / 24°C. Colder water extends work time, warmer water shortens work time.

Recommended Burnout Cycles

Casting Temperatures

Ladies Rings, lacy or intricate designs 900° - 1000°F (482° - 538°C)

Gents Rings, heavier designs 700° - 900°F (371° - 482°C)

During the last 1 to 2 hours of burnout, the temperature must be adjusted so that the flasks are at correct temperature for casting.

> 300°F/149°C 12 Hour - 2 hr

73°F/23°C



5 Hour Cycle 2 - 1/2" x 2-1/2" (63 x 63 mm)

700°F/371°C

8 Hour - 2 hr

Trapped Wax

Elimination



8 Hour Cycle 3-1/2" x 4" (89 x 100 mm)

1350°F/732°C

5 Hour - 2 hr



12 Hour Cycle 4" x 8" (100 x 200 mm)

900°F/482°C 8 Hour - 1hr 12 Hour - 2 hr

Thermal Expansion of Mold

12 Hour - 4 hr Complete **Flimination**

Casting Temp.

5 Hour - 1 hr 8 Hour - 1 hr 12 Hour - 2 hr

Temperature Reduction

Initial Wax and Water Flimination **Note:** Graph is meant as a guide only, adjustments should be made as necessary. 5, 8 and 12 Hour Cycles represent hold times only, and do not include ramp time. Recommended ramp time of approximately 9°F / 5°C per minute.

Cast

Instruction / Injection Wax

Injection Wax Instructions for AccuBeads and AccuFlakes



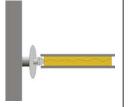
1. Fill wax pot and heat to specific injection temperature. It is important not to overheat the wax.



2. Spray both sides of the rubber mold with Kerr Microfilm or Silicone Mold Release spray. Open mold fully by bending it backwards in order to reach all ares with the spray. It is not necessary to spray each time before injecting the mold.



3. Adjust air pressure on wax injector to between 3 and 10 pounds. Higher pressure can be used if necessary. However, for best results keep pressure under 15 pounds.



4. Put rubber mold into clamp or hold between two plates applying moderate pressure by hand. Insert nozzle into sprue opening in mold. Press mold into nozzle for 5 to 7 seconds. Make sure rubber mold is at 90 degree angle for best results.



5. Wait for 1 to 1-1/2 minutes to allow wax to solidify. Open mold carefully and remove pattern making sure that you do not force the pattern out of the mold



6. Change wax in injector pot every 2 to 3 months. Use Kerr Laboratory Solitine or other wax solvent for cleaning of the wax pot and injection nozzle.

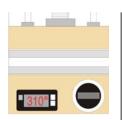
Injection Wax Troubleshooting

Condition	Cause	Correction
Mold overfills	Air pressure too high Wax too hot Mold plates held uneven Mold held too long at nozzle	Reduce air pressure Adjust temperature Hold plates firmly, distributing pressure evenly Hold for less time
Mold not filling	Air pressure too low Wax not hot enough Nozzle plugged	Adjust air pressure Adjust temperature Remove and clean
Air bubbles in pattern	Air pressure too high Wax pot low on wax Wax too hot or too cold	Adjust air temperature Add wax, ensure wax pot is more than 1/2 full Adjust temperature and stir wax to release trapped air
Wax brittle	Wax too hot Wax has been reused Molds cooling too long	Adjust temperature Use new wax Inject fewer molds during cycle production
Wax discolored	Wax too hot	Clean wax pot, add new wax



Instruction / Mold Rubber

Mold Rubber Instructions



1. Preheat vulcanizer to 310°F / 155°C. Temperature should not exceed 325°F / 163°C.



2. Cut the rubber to fit into the mold frame.



Remove backing from both sides of rubber and place first layers into mold pressing firmly.



3. Cut and form rubber around model, filling all voids.



Press the model into center of rubber. Pack remaining layers.

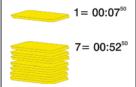


4. Place second mold plate on top and place between platens.

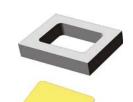


Close platens firmly, continue to tighten at two minute intervals, after 8 minutes give final tightening.

Vulcanizing Time



5. Deterimine the correct vulcanizina time by allowing 7.5 minutes per laver of rubber. For example a 3/4" (20mm) thick mold frame will take 7 lavers of rubber, and will take 53 minutes of vulcanizina time. For best results do not exceed these time limits.





Mold Rubber Troubleshooting

Condition	Cause	Correction
Cut mold does not seal evenly (warping)	Caused by tilt of platens	Ensure that platens are parallel in closing
Voids in mold	Model not filled in with rubber	Pack rubber pieces into and around model Preheat vulcanizer to 310°F/155°C Tighten vulcanizer 1/2 turn past first resistance Allow 15 minutes at 310°F/155°C for every 1/4" / 6mm. For intricate molds allow 20 minutes at 290°F/143°C for every 6mm.
Mold delaminates after curing	Surface of strips not clean Rubber has begun to vulcanize	Use new strips. Do not contaminate surfaces with hands, and protect from dirt or dust.
Mold soft and sticky in center	Underheated. Cure too short. Heating element burned out.	Check temperature of platens Cure 15 minutes for each 1/4" / 6mm.
Mold has pebbly surface Mold is sticky and scorched Excessive shrinkage Lack of flexibility	Overheated	Check calibration of vulcanizer





Kerr Jewelry / Industrial Products 1717 West Collins Avenue Orange, CA 92867