

Heraeus Kulzer

Mitsui Chemicals Group

Modern Materials® Gypsum & Wax Products

The industry leader.
For over half a century.



**Modern
Materials®**

Consistency. Value.
Performance. Quality.

Modern Materials® Gypsum Products

Consistency.

Modern Materials Gypsum Products have set the standard of excellence for over half a century. Consistency in the final product begins with the finest raw materials available. Rigid manufacturing processes such as batch testing, pre-blending and in-process inspections transform these raw materials into high-quality finished products.

Value.

You take pride in your work. Heraeus Kulzer and Modern Materials takes pride in the value of the industry leadership we have earned. Our natural gypsum products—die materials, model stones, and plasters—present quality standards at a value-based price you can depend on.

Performance.

Through innovation and ongoing product improvement, Modern Materials products continue to offer each generation of dental laboratory technicians the performance demanded to ensure quality results.

Quality.

Our customers receive the same high quality product time after time. This consistent performance is a result of our Quality Assurance. Each batch is controlled for set time, strength and color. As we manufacture a batch of material, a sample is pulled and tested.

Modern Materials Gypsum Reference Guide

Product	Water/Powder Ratio	Initial Set Time (Min.)	Compression Strength (Dry)	Expansion*	Type	Uses	Packaging	Comparative Products
DIE STONES								
Die-Keen® Green, Blue, Pink, Ivory	21ml/100gm 25ml/120gm 12.6ml/60gm	10–13	18,000 psi	High 0.18–0.2%	V	Optimum expansion for crown & bridge, porcelain, high scrape resistance	25 lbs, 50 lbs 24 x 120g pouch—green 24 x 60g pouch—green	Dentsply: Gladstone 2000 Whip Mix: Hard Rock Kerr: Suprastone
Die-Keen® Resin Reinforced Blue, Light Buff	20ml/100gm	7–9	18,000 psi	Low 0.08–.10%	IV	Crown & bridge, porcelain, implants, all ceramic, high scrape resistance	25 lbs	GC: Fujirock Whip Mix: Resin Rock
Die-Stone® Peach	22ml/100gm	10–13	15,000 psi	0.07%	IV	Crown & bridge, porcelain, cast partials, high scrape resistance	25 lbs 50 lbs	Kerr: VelMix Whip Mix: Silky Rock
MODEL STONES								
Denstone® Golden, White, Pink	30ml/100gm	8–10	9,000 psi	0.11%	III	Full, partial dentures, cast partials, counter models	25 lbs—golden, white 50 lbs—golden, white, pink	Dentsply: Castone Whip Mix: Microstone, Quickstone, Labstone
Statstone® (Fast Set) Pink	23ml/100gm 27.6ml/120gm	2	11,000 psi	0.11%	III	Custom trays, bleach trays, mouth guards, denture repairs, splints	25 lbs 24 x 120g pouch	Whip Mix: Snap Stone
O-67® Snow White White	26ml/100gm	9–11	11,000 psi	0.14%	III	Orthodontic models	25 lbs 50 lbs	Kerr: VelMix Whip Mix: Silky Rock
Labstone® Buff, Green, Blue	30ml/100gm	8–10	8,000 psi	0.12%	III	Articulating, master models, flasking	25 lbs—buff, blue 50 lbs—buff, blue, green	Dentsply: Castone Whip Mix: Microstone, Quickstone, Labstone
Mounting Stone White	56ml/100gm	2–3	5,000 psi	Low	I	Mounting casts	50 lbs	Whip Mix: Mounting Stone Garreco: Mounting Stone, Articulating Plaster
PLASTERS								
Orthodontic Plaster Snow White	35ml/100gm	12–14	6,500 psi	0.18%	II	Ortho study models, denser plaster, hybrid-part stone, part plaster	25 lbs 50 lbs	Garreco: Ortho-Plaster, Fast Plaster Whip Mix: Orthodontic Plaster
Lab Plaster White	47ml/100gm	F: 4–6 R: 6–8	5,000 psi	0.17%	II	Denture flasking, multiple laboratory applications	25 lbs—regular, fast 50 lbs—regular, fast	Whip Mix: Lab Plaster Kerr: Plaster

*Note: Setting expansion data represented is a typical value within in the stated range for the respective type.

Modern Materials® Gypsum



Die Stones

- **Modern Materials Die-Keen®**
In a Class by Itself
 - Type V, Green, Pink, Blue, and Ivory
 - Most trusted, most popular die material available
 - Optimum expansion for making crowns and bridges, porcelain
- **Modern Materials Die-Keen® Resin Reinforced**
 - Type IV, Blue, Light Buff
 - Minimum expansion, maximum strength
 - Produces tough, durable, non brittle, models with enhanced abrasion resistance and surface appearance
- **Modern Materials Die-Stone®**
The Perfect Stone for Master Models
 - Type IV, Peach
 - Specially formulated for fixed and removable bridges, cast partials, crowns, and inlays



Model Stones

- **Modern Materials Tru-Stone®**
High Production, Great Value
 - Type IV, Pink
 - Ideal for crown and bridge, dies and cast partials
- **Modern Materials Denstone®**
Formulated for Acrylic Dentures and Counter Models
 - Type III, Golden, Pink, White
 - Formulated for processing full or partial acrylic dentures and counter models

- **Modern Materials StatStone®**
Fast, Finished Models Ready in 5 Minutes
 - Type III, Pink
 - Highly accurate material with very low setting expansion of .11%
 - Specially formulated when speed and precision are needed for fabricating bleaching trays, temporaries, custom trays, splints, etc.
 - Use for quick repairs
- **Modern Materials O-67®**
Snow White Orthodontic Stone when Whiteness, Accuracy and Durability Matter
 - Type III, White
 - Specifically formulated for orthodontic casts where whiteness, accuracy, and durability are essential
- **Modern Materials Labstone®**
Reliable Consistency and Dependable Performance
 - Type III, Buff, Blue, Green
 - All-purpose model stone for articulating, flasking, and master models
- **Modern Materials Mounting Stone**
Fast-Setting Plaster
 - Type I, White
 - Fast-setting plaster perfectly formulated for mounting casts



Plasters

- **Modern Materials Orthodontic Plaster**
Velvet-Smooth Models Set Harder and Denser
 - Type II, Extremely Snow White
 - Ideal for orthodontic casts and study models
- **Modern Materials Lab Plaster**
Most Popular Modern Materials Plaster
 - Type II, White
 - Fast and regular set
- **Modern Materials Pumice**
Specially Ground for Fast Cutting without Scratching or Grooving
 - Cuts or polishes depending on how much pressure is applied



Modern Materials® Wax



■ Modern Materials Base Plate Waxes

General purpose baseplate waxes. Made from natural organic waxes, so it carves clean, will not chip and break at try-in, and boils out without oily residue.

- Shur Wax Pink
- Shur Wax X-Hard Pink
- Modern Pink No. 3
- Thin-Ex Wax .040 Gauge Pink



■ Modern Materials Bite Blocks

Pink Pre-formed rims to fill vertical space as needed. For dentures, the blocks are made from natural organic waxes, so it carves out clean, won't chip and break at try in, and boils out without oily residue.



■ Modern Materials Utility Wax Strips and Square Ropes

Small Utility Wax Strips ($\frac{1}{16}$ " diameter) in both red and white. Large Utility Wax Strips ($\frac{3}{16}$ " diameter) in both red and white. Utility Wax Ropes ($\frac{3}{16}$ " square) in both red and white. All utility waxes are 11" long.

- Utility Wax Strips
- Utility Wax Square Ropes



■ Modern Materials Boxing Wax

"Regular" red (.96" thick x 1.5" wide x 11" long) soft wax easily adapts to impression trays. "X-Thin" red (.040" thick x 1.5" wide x 11" long) soft wax even easier to adapt to impression trays.



■ Modern Materials Checkbite Wafers

Primarily beeswax, softens easily in warm water, tempers in the patient's mouth so it is harder after the bite is taken than when it was in the box. Easy horseshoe shape minimizes trimming.



■ Modern Materials Yellow Bite Wax

Primarily beeswax, softens easily in warm water, tempers in the patient's mouth so it is harder after the bite is taken than when it was in the box. Comes in sheets.



■ Surgident Copwax™ Bite Wafers

Horseshoe shaped bite wafers made from wax with copper particles distributed throughout. Soften wafer in warm water and the copper holds the heat so the wax is softer. Foil laminated to prevent bite through, yet thin enough not to open the bite. Copwax tempers in the patient's mouth so it is harder after the bite is taken than when it was in the box.



■ Surgident Periphery Wax

To protect the soft tissue from the periphery of the impression tray, to extend or post dam impression trays.

- Surgident Periphery Wax—Blue and scented
- Orthodontic Tray Wax—White

Modern Materials® Wax Products

Modern Materials Wax products have set the standard in quality, versatility, consistency and reliability. No two dental waxes are created the same; therefore, the combination of the finest materials and state of the art machinery sets Heraeus Kulzer waxes apart from our competitors. Our waxes are made from

beeswax and organic waxes collected from trees in South America which provides a quality product that boils out cleanly. Due to state of the art technology, our highly controlled facilities are able to provide consistent results every time.

Modern Materials Wax Reference Guide

Product	Color	Type	Hardness/ Thickness	Features/Benefits	Uses	Packaging
BASE PLATE WAXES						
Shur Wax®	Pink	I	Medium	<ul style="list-style-type: none"> • Easy to form and carve • Teeth don't shift due to shrinkage • Boils out cleanly 	<ul style="list-style-type: none"> • Polishes to high shine • Less effort—saves time 	Dentures, or any place a wax sheet is needed. 1 lb and 5 lb boxes
Shur Wax® X-Hard	Pink	II	Medium/ Hard	<ul style="list-style-type: none"> • Easy to form and carve • Resilient to high external temperatures • Teeth don't shift due to shrinkage 	<ul style="list-style-type: none"> • Boils out cleanly • Polishes to high shine • Less effort—saves time 	Dentures, or any place a wax sheet is needed. 1 lb and 5 lb boxes
Modern Pink No. 3	Pink	I	Medium/ Soft	<ul style="list-style-type: none"> • Easy to form and carve • Teeth don't shift due to shrinkage • Boils out cleanly 	<ul style="list-style-type: none"> • Polishes to high shine • Less effort—saves time 	Dentures, or any place a wax sheet is needed. 1 lb and 5 lb boxes
Bite Blocks	Pink		Hard/ Soft	<ul style="list-style-type: none"> • Easy to form and carve • Teeth don't shift due to shrinkage • Boils out cleanly 	<ul style="list-style-type: none"> • Polishes to high shine • Pre-formed 	Dentures. Trial size—12 blocks (hard/soft) Laboratory size—120 blocks (hard/soft)
Thin-Ex Wax (.040 Gauge)	Pink	I	Medium	<ul style="list-style-type: none"> • Easy to form and carve • Teeth don't shift due to shrinkage • Less effort—saves time • Boils out cleanly 	<ul style="list-style-type: none"> • Polishes to high shine • Half the thickness of regular baseplate wax 	Dentures, or any place a wax sheet is needed. Ideal for spacing. 1 lb box
UTILITY STRIPS & SQUARE ROPES						
Utility Wax Strips	Red, White		Large/ Small	<ul style="list-style-type: none"> • Not too sticky to remove cleanly • Sticky enough to adhere without softening 	<ul style="list-style-type: none"> • Easy to use and remove 	Red for general purpose and visibility, white for Ortho. Small strips—114 strips per box Large strips—75 strips per box
Utility Wax Square Ropes	Red, White			<ul style="list-style-type: none"> • Not too sticky to remove cleanly • Sticky enough to adhere without softening 	<ul style="list-style-type: none"> • Easy to use and remove 	Red for general purpose and visibility, white for Ortho. Small box—55 ropes Large box—286 ropes
BOXING WAX						
Boxing Wax	Red		Regular/ X-Thin	<ul style="list-style-type: none"> • Sticky enough to adhere without softening • Easy to use 	<ul style="list-style-type: none"> • Not too sticky to remove cleanly • Regular .96" thick, X-Thin .040" thick 	Impressions. 1 lb box
CHECK BITE WAFERS						
Checkbite Wafers	Yellow			<ul style="list-style-type: none"> • Ideal for a quick bite • Easy to use 	<ul style="list-style-type: none"> • Won't stain models • Ideal for Orthodontic models 	Quick bite, orthodontic models. Trial size—48 wafers Economy size—192 wafers
YELLOW BITE WAX						
Yellow Bite Wax	Yellow			<ul style="list-style-type: none"> • Ideal for a quick bite • Easy to use • Won't stain models 	<ul style="list-style-type: none"> • Ideal for Orthodontic models • Roll it up for a mush bite to establish vertical 	Quick bite, orthodontic models. 1 lb and 5 lb boxes
COPRWAX™						
Copr wax™ Bite Wafers	Copper			<ul style="list-style-type: none"> • Ideal for a quick bite • Holds the heat so it is soft longer • Ideal for Orthodontic models 	<ul style="list-style-type: none"> • Won't stain models • Foil prevents bite through • Great if your patient is numb 	Quick bite, orthodontic models. 84 bite wafers per box
PERIPHERY WAX						
Periphery Wax	Blue			<ul style="list-style-type: none"> • Blue for visibility • Pleasant scent • Sticky enough to adhere without softening • Not too sticky to remove cleanly 	<ul style="list-style-type: none"> • Can be used to post dam a tray or as a stop • Can be used with hydrocolloid higher melting range 	Impressions, covering brackets and wires. 1 box—60 sticks (mint flavored)
Orthodontic Tray Wax	White			<ul style="list-style-type: none"> • Sticky enough to adhere without softening • White for Ortho, won't discolor model 	<ul style="list-style-type: none"> • Great for patients to keep in pocket or purse • Not too sticky to remove cleanly 	Impressions, covering brackets and wires. 1 box—60 sticks (mint flavored)

When you choose Modern Materials®, you know you are selecting the best in dental stones. Modern Materials and Heraeus Kulzer provide you with value, performance, quality and consistent results you can count on. If you trust us in gypsum and wax, explore additional Heraeus Kulzer lab products such as:

- **Pala®—Your Esthetic Denture Solution**— Mondial® i, Mondial®, Basic and Artic® Denture Teeth offer the highest wear resistance, as well as shades to match every restoration and overall exceptional esthetics. Try our acrylics and equipment for a complete esthetic denture solution.
- **Scrap Refining**—Recycle your scrap materials into profits, instead of waste. We offer extensive scrap refining services and use advanced sophisticated and accurate scrap assaying techniques to accurately identify all the precious material present in a mass. Visit <http://mydental360.com/Refining> for more information.
- **Consumables**—We offer an extensive array of equipment to meet the special technical needs of the dental laboratory and make your job a little easier.

For more information regarding Heraeus Kulzer Lab products, please contact your Heraeus Kulzer or Dealer Sales representative.



The name you know, the brands you trust: Denstone®, Die-Keen®, DieStone®, Labstone®, and StatStone®

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