



Modern Materials®

The industry leader. For over half a century.

Giving a hand to oral health.



KULZER
MITSUI CHEMICALS GROUP

Modern Materials® Gypsum

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. 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. Every time 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
0-67® 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
MODEL BASE								
Modern Flow™ Peach	22ml/100gm	13-16	5,080 psi	.09%	III	Bases for models	25 lbs 50 lbs	Whip Mix: Flow

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

Modern Materials® Gypsums and Waxes

Work with the industry's best materials.

Made with only the finest raw materials, our premium-grade gypsums deliver high performance, consistent results every time.

Created from beeswax and organic tree waxes, our line of wax products set the standard in quality, versatility and reliability.



Model Base

- **Modern Flow™**
 - Type III, Peach
 - High density, low expansion stone designed for model bases



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 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

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



■ **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 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 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 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.



■ **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



■ **Surgident Coprwx™ 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. Coprwx tempers in the patient's mouth so it is harder after the bite is taken than when it was in the box.



■ **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.



■ **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 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 Kulzer waxes apart from our competitors. Our waxes are made from beeswax and organic waxes collected from trees in South America, which provide a quality product that boils out cleanly. Due to state of the art technology, our highly controlled facilities are able to produce 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 waxes and stones. Modern Materials and Kulzer provide you with value, performance, quality and consistent results you can count on.

Also from Kulzer:

Pala® Denture Teeth

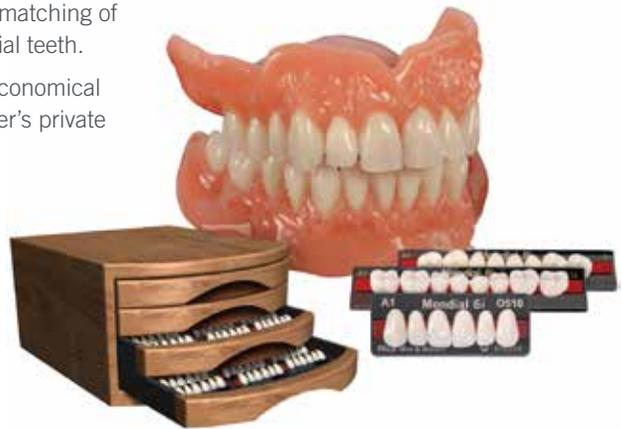
Beauty. Quality. Performance.

As one of the world's leading dental companies, Pala from Kulzer stands for over 80 years of prosthetic excellence. Pala is synonymous with high quality denture teeth, acrylics and first class accessories.

The development of these high quality, time-tested denture teeth is based on many years of experience, innovative technology and precision handcraft. Pala's large selection of mould designs provides the freedom and flexibility to select the perfect teeth for every patient's unique needs.

- **Mondial i** and **Mondial** denture teeth are made with the world's first and only dental acrylic—NanoPearls®, a combination of unique microfillers and nanoparticles.
- **Basic's** multilayered anteriors, with a well-defined incisal edge and life-like mamelons, create a deeply translucent appearance.
- **Artic's** multilayered structure allows exact matching of reflection curves in both natural and artificial teeth.
- **Artic Digital** offers CAD/CAM teeth at an economical price, specially designed to work with Kulzer's private processing economy digital dentures.

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