



**technomelt**

**LOCTITE**



**Henkel Solutions for  
the Appliance Industry**



Excellence is our Passion



With Henkel, you benefit from more than just premier products. We provide the engineering services and design consultation that will reduce costs, maximize manufacturing efficiencies, and enable the development of innovative appliances. We are committed to understanding your production processes and providing you with value-added solutions for your manufacturing needs.



# THE POWER OF HENKEL TECHNOLOGIES

## YOUR SINGLE, WORLDWIDE SOURCE FOR SUPERIOR ADHESIVES, SEALANTS, AND METAL PRETREATMENTS

Appliances are complex assemblies that have to meet high customer expectations. That means they must perform flawlessly under demanding operating conditions such as heat, cold, humidity, pressure, vibration, and chemicals.

In order to meet these challenges, Henkel offers a comprehensive collection of high performance products and services for the most demanding appliance applications. In fact, Henkel has the diversity and expertise to offer one-stop solutions across the entire appliance value chain.

### Surface Treatment Solutions

- Forming/stamping of metal
- Cleaning metal
- Promoting paint adhesion
- Improving corrosion resistance

### Assembly Solutions

- Joining parts without spoiling the visual appearance of goods
- Making joints impermeable to gases, liquids, and solids and resistant to corrosion
- Preventing heat and cold loss
- Providing insulation for sound absorption and vibration dampening

### A RANGE OF HIGH PERFORMANCE PRODUCTS IS NOT ALL OUR CUSTOMERS CAN EXPECT FROM HENKEL. WE WORK IN PARTNERSHIP WITH OUR CUSTOMERS TO PROVIDE ACCESS TO:

- Customer service representatives, R&D specialists, and application and technical service engineers who understand and solve your needs, providing unrivaled assistance when and where you need it
- Sophisticated design, testing, engineering, and processing capabilities to help you design in lower costs, improve performance, reduce maintenance cycle times, and increase productivity
- Manufacturing facilities and authorized distributor locations in 80 countries on five continents
- An advanced understanding of adhesive, sealant, surface treatment, and cleaning technologies that can deliver lower cost solutions with improved working practices

### Equipment Solutions

- Dispensing systems
- Curing equipment
- Monitoring systems
- Custom development of equipment

### Continuous Improvement Solutions

- Manufacturing Reliability Assurance
- Chemical Systems Management
- Teardown Analysis

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# PROFIT FROM RELIABILITY

## Continuous Improvement Solutions

### Manufacturing Reliability Assurance

It is estimated that maintenance costs contribute 8% to 12% of the total product cost and are the most out-of-control, controllable expenses in a plant. As part of our continuous improvement process for manufacturing reliability, Henkel experts will survey your manufacturing equipment to flag potential problem areas, and audit your plant's air, hydraulic, oil, or steam systems to identify leaks and calculate the toll they are taking on your budget. This process is measured, quantified, and documented through a variety of means including:

- Fewer equipment defects and failures
- Increased operating efficiency at decreased operating costs
- Enhanced product quality
- Greater employee initiative

### Chemical Systems Management

Henkel Chemical Systems Management has a single vision to help our customers reduce chemical usage and overall cost, while improving effectiveness and safety. This unique partnership offers full-system support for chemical purchases, inventory management, environmental reporting, and process control. Special benefits include:

- Reduced complexity of product purchasing (one invoice per month)
- Non-core business delegated to a reliable partner (single supply source)
- Modern delivery systems (transparency)
- Total process cost reduction and streamlined logistics and procurement

### The Teardown Analysis

Our engineers can analyze your assemblies and help you build better products faster and more cost effectively. We are able to assist you at any phase of your production process, whether your latest innovations are already coming off the assembly line or are still on the drawing board, by integrating the following disciplines:

- Concept development
- Cost-out analysis
- Feasibility studies

## Application Areas & Examples

### Cleaning

- Metal
- Glass
- Plastic

### Metal Bonding

- Magnets on motor
- Compressor to pan
- Support brackets on cooktops

### Plastic Bonding

- Knobs on control panel
- Door handles
- Name tags
- Laminated panels to ABS or PS frames
- PVC to glass shelves
- Door assemblies
- Door seals

### Pretreatment

- Conversion Coating: shell/cabinet, door and unit parts
- Autodeposition coating: unit parts

### Potting & Encapsulating

- Connectors
- Armature windings

### Threadlocking/Sealing

- Fasteners and fittings
- Dishwasher blades
- Hinges on door assemblies
- Fittings on gas dryers and washers
- Compressors
- Fan motors

### Stamping, Forming, Cutting Lubricants

- Shells/cabinets
- Doors

### Low Pressure Molding

- Connectors
- Control panels

### Thermal Transfer

- Refrigerator and freezer liners
- Range and cooker

### Retaining

- Gear shafts
- Slip fit bearings/bushings
- Spin pinions
- Copper tubing

### Sound Damping

- Shells/cabinets
- Motor and compressor

### Sealing

- Glass cooktops to frame
- Glass windows in range doors



# UNIQUE SURFACE TREATMENTS

A variety of methods are used for the pretreatment of appliance components to clean and work metal, promote paint adhesion and improve corrosion resistance. Some examples are washer and dryer shell stamping lubricants, conversion coatings for high-visibility appliances, corrosion, and detergent protection for washers and dishwashers, and cleaners for the removal of oils, grease, oxides, pigments, polishing or grinding pastes, oxidation, rust, or scale.

## Surface Treatment Solutions

### Stamping Lubricants

Many different processes are used to press, stamp, bend, or pierce sheet metal into the required shapes and forms. One key to success is using the appropriate lubricant to produce a component without breaking or scoring its metal surface. Henkel provides a full spectrum of metal forming lubricants.

### Pretreatments

Conversion coating is a pretreatment process that converts a metallic surface to an inorganic surface. The process also chemically transforms a metal substrate into a nonmetallic, adhesive-bearing surface. The new surface has increased area and energy, improving the overall durability of the surface after it is painted.

Henkel provides a full line of pretreatments for multimetal or specific metal applications. Our pretreatment product line includes cleaners, activators, zinc phosphates, iron phosphates, and final passivation.

Henkel also offers coatings that provide corrosion protection on surfaces by means of autodeposition and without the use of electrical current. Because of a self-deposition process, our coating has the unique ability to coat wherever it wets, without limitations by electric field distribution.

### Cleaning Solutions

Whenever metals have to be prepared for additional process steps such as pretreatment, galvanizing, coating, or enameling, they first need to be thoroughly cleaned and degreased.

Henkel offers a comprehensive range of Ridoline® as well as alkaline, neutral and acid P3® cleaners for such purposes.

	Product	Description	Package Size	Item Number
<b>STAMPING LUBRICANTS</b>	Multan® F 747™	Synthetic stamping lubricant for deep draws	pail, drum, tote	597523; 595363; 822359
	Multan® F 738™	Synthetic stamping lubricant for medium draws	pail, drum, tote	622990; 594840; 822358
	Multan® F 737™	Synthetic stamping lubricant for vanishing oil applications	pail, drum, tote	985614; 595800; 772750
	Multan® PL 633™	Vanishing oil applications	pail, drum, tote	643646; 594867; 597917
	Multan® F 750™	Synthetic stamping lubricant with short-term RP for medium draw applications	pail, drum, tote	596044; 595446; 891142
	Multan® B-236™	Semisynthetic coolant for metal removal / machining operations	pail, drum, tote	1286460; 1286491; 1286492
	Multan® B-400™	Semisynthetic coolant for metal removal / machining operations	pail, drum, tote	706695; 677532; 802380
	Multan® F 6740™	Synthetic polymer-based stamping expansion lubricant	pail, tote	877750; 877728
	Multan® PL 1439™	Low VOC oil-based fin stamping lubricant for use with Appli-coater® equipment	pail, drum, tote	994017; 994018; 997935



	Product	Description	Package Size	Item Number
<b>CLEANING SOLUTIONS</b>	Parco® Cleaner 305™	KOH, chelated, heavily phosphated, low temp	pail, drum, tote	596391; 593947; 987206
	Ridoline® RT 180™	KOH, chelated, moderately phosphated, low temp	pail, drum, tote	1366503; 1366502; 1366501
	Parco® Cleaner 472™	KOH, chelated, low phosphate, silicated	pail, drum, tote	772238; 594372; 892859
	Parco® Cleaner ZX-4™	KOH, chelated, low phosphate, low temp, oil splitter	pail, drum, tote	772294; 596474; 893220
	Parco® Cleaner 305N™	KOH, chelated, phosphate free, low temp	pail, drum, tote	1470316; 842945; 842944
<b>CONDITIONERS</b>	Fixodine® Z10™	Titanium-based, powdered conditioner	drum	593993
	Fixodine® ZL™	Titanium-based, liquid conditioner	pail, drum, tote	772095; 593918; 593974
	Prepalene™ X™	Zinc-based, liquid conditioner	pail, drum, tote	772525; 687530; 1437547
<b>METAL PRETREATMENTS</b>	Alodine® 5200™	Non-Cr technology for aluminum pretreatment	pail, drum, tote	596088; 594142; 890707
	Bonderite® 1030™	Chlorate accelerated iron phosphate for steel	pail, drum, tote	771860; 593941; 890291
	Bonderite® 1090™	Chlorate accelerated fluoride containing iron phosphate for multisubstrate processes	pail, drum, tote	772192; 594281; 8 90712
	Bonderite® NT-1™	First generation fluorozirconic-based nanoceramic for multisubstrate processes	pail, drum, tote	772427; 611359; 893767
	TecTalis® 1200™ MU A & B	Second generation fluorozirconic nanoceramic for multisubstrate processes	pail, drum, tote	1245934 / 1246687; 1245931 / 1246682; 1245932 / 1246685
	TecTalis® 1200™ R20	Stronger, multimetal replenisher for high volume production lines	pail, drum, tote	1190671; 1187094; 1187095
	TecTalis® 1200™ R35	Standard multimetal replenisher for TecTalis® lines	pail, drum, tote	1344090; 1344122; 1344128
	TecTalis® 1800™ R27	Multimetal replenisher for high volume steel lines	pail, drum, tote	1432386; 1432385; 1432384
	Bonderite® 769™	Nickel-free, cobalt-containing zinc phosphate	pail, drum	771917; 595066
<b>SEALS</b>	Parcolene® 50NC™	Fluorozirconic-based acidic seal	pail, drum, tote	771997; 594378; 890566
	Parcolene® 99X™	Acidified polymer-based seal	pail, drum, tote	717257; 665553; 772546
	Parcolene® 99CWN™	Fluotitanic, polymer-based acidic seal for lines with high levels of aluminum	pail, drum	772288; 596354
	Parcolene® 7100™	Fluotitanic, polymer-based, phosphate containing dry-in-place seal	pail, drum, tote	596456; 594309; 890714
<b>DEFOAMERS</b>	Parcolene® 95B™	Surfactant-based defoamer for seals	bottle, pail	599064; 594339
	Parco® Defoamer 14™	Oil-based defoamer for routine foam control	pail, drum	593873; 594704
	Parco® Defoamer 21™	Siloxane-based defoamer for quick foam suppression	bottle, pail, drum, tote	772181; 594581; 913051; 913052

## Assembly Solutions

The design and manufacture of appliances poses numerous assembly, mounting, fastening, and sealing challenges. These not only involve the manufacture of goods, but also their long-term durability and maintenance needs.

Henkel adhesives and sealants have been specified by the world's major appliance manufacturers for more than 30 years.

### **Hysol® and Technomelt® Hot Melt Adhesives**

These hot melt adhesives are used for bonding a variety of substrates, including difficult-to-bond plastics. They are ideal for applications that require high-speed manufacturing, bonding versatility, very large gap filling, fast green strength, and minimal shrinkage. These products are solvent-free and contain environmentally friendly materials with no harmful VOCs.

### **Loctite® Engineering Adhesives and Sealants**

Loctite® is the respected name when it comes to high technology engineering applications in the appliance industry. There are adhesives which lock and seal threaded fasteners and fittings, join plastics, metals, glass, and other substrates, or retain bearings and cylindrical assemblies. In addition, we provide a broad range of adhesives and sealants, including anaerobics, acrylics, cyanoacrylates, epoxies, light cures, silicones and urethanes, to meet a variety of application requirements.

### **Macroplast® Polyurethane Adhesives**

These adhesives include various one- and two-component polyurethanes and reactive hot melts for structural bonding of components. Typical applications include the bonding of top lids on washing machines and refrigerators.

### **Macromelt® Low Pressure Molding Adhesives**

These adhesives are thermoplastic hot melts based on polyamide for injection moulding. This product range is used for electronic component enclosure to protect against moisture and mechanical stressing, and includes the sealing, insulating, and fixturing of harnesses and connectors.

## Equipment Solutions

### **Dispensing**

Henkel provides a complete line of dispensing equipment, ranging from simple, hand-operated dispensers to fully automatic systems, including a complete line of accessories.

### **Curing**

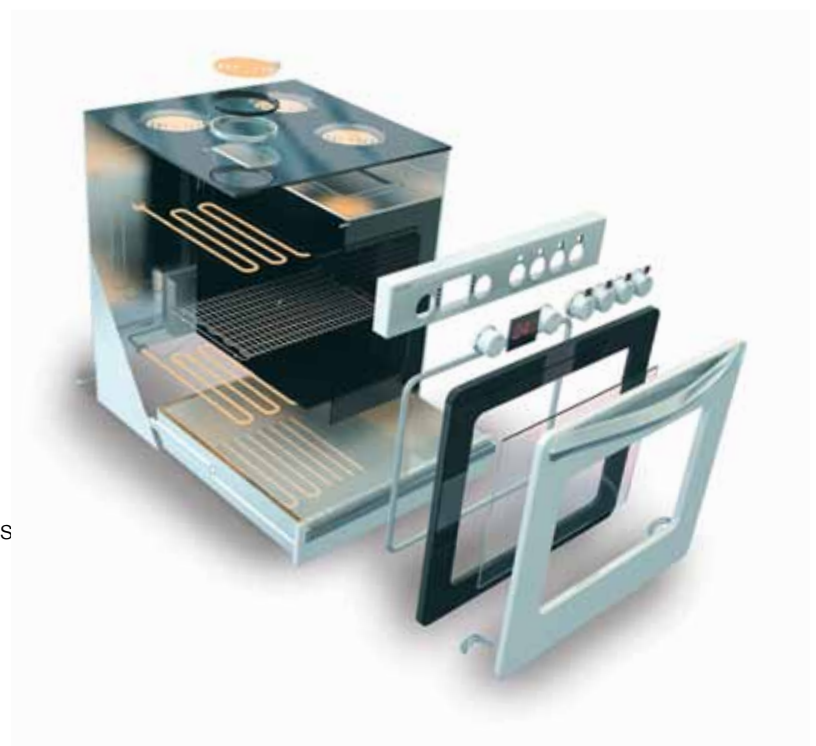
Henkel offers light curing systems for spot, batch, and continuous applications. Each system offers flexibility and appropriate safety features. A full line of accessories, including radiometers, replacement bulbs, and UV safety glasses are also available.

### **Monitoring**

State-of-the-art detection systems are also available from Henkel that allow real-time process monitoring of dispense cycles. Whether you are looking to determine the presence of adhesive via fluorescence detection or the amount of adhesive dispensed for an individual dispense nozzle, Henkel has the monitoring system to get the job done.

### **Custom Equipment**

Henkel can modify any of our standard dispensing or curing systems, or custom-develop a system, which combines our technology with your current manufacturing process.







### HOT MELT ADHESIVES

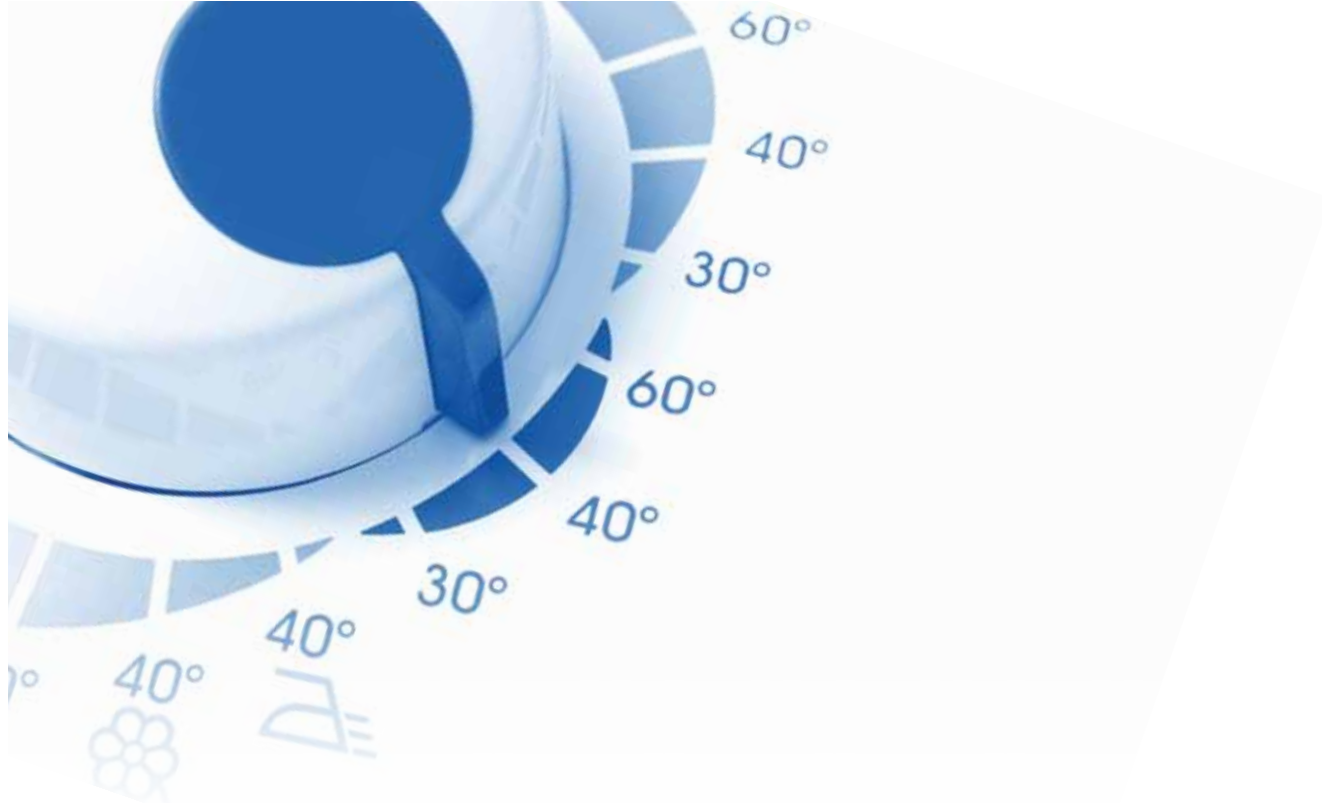
Product	Description	Package Size	Item Number
Dorus® MS 3210™	Long open time, insulation bonding, UL723, UL2395, UL727	box	1222948
Loctite® 1942™ Hysol®	General-purpose; excellent adhesion to wood and many plastics	35-lb. box; polyshot	83277
Loctite® 7809FR™ Hysol®	Meets UL 94V-0 flammability rating	25-lb. pail; polyshot	83676
Loctite® 236™ Hysol®	Medium viscosity; clear	25-lb. box; superstick	83252
Loctite® Hysol® Cool-Melt™	Low temperature application; ideal for bonding heat-sensitive parts	35-lb. box; maxistick	83394
Loctite® Hysol® SuperPac	Formulated to bond cardboard and foams	35-lb. box; polyshot	83405
Technomelt Tack 003A™	Ideal where a peelable bond is required	box	1218669
Primamelt™ 5646™	High heat resistance and excellent adhesion to steel	box	748024
Technomelt® 84-8890™	Adhesion to painted metal	drum	1348378
Technomelt® 86-8845™	Permanent, pressure sensitive adhesive	box	1399961
Technomelt® 8668™	High peel and shear, pressure sensitive adhesive. High tack and green strength	box	1399958
Technomelt® 8448™	Excellent hot tack and fast setting speed	box	1329233

### NOISE, VIBRATION, AND HARSHNESS

Product	Description	Package Size	Item Number
Terophon® ORB 23100™	Grey/black, self-adhering, nonreactive mastic	Preformed or die-cut parts	Custom

### MS POLYMER ADHESIVES

Product	Description	Package Size	Item Number
Loctite® 5512™	High elongation and tensile strength	300-ml cartridge	41380
Loctite® 5572™	High viscosity, sag resistant, high shear strength, cures to an elastic product	300-ml cartridge	41379
Loctite® 5590™	Fast set time, 2-component adhesive	400-ml dual cartridge	1091896



#### ANAEROBIC THREADLOCKERS

Product	Description	Package Size	Item Number
Loctite® 243™	Medium strength threadlocker, NSF 61	1-liter bottle	1330333
Loctite® 263™	High strength threadlocker	1-liter bottle	1330334
Loctite® 290™	Wicking threadlocker, NSF 61	1-liter bottle	29043

#### ANAEROBIC THREAD SEALANTS

Product	Description	Package Size	Item Number
Loctite® 565™	Controlled strength, UL, ULC, NSF/ANSI 61, CFIA	1-liter bottle	56543
Loctite® 567™	Can withstand temperatures up to 400°F (204°C). Excellent for inactive metals. UL, ULC, NSF/ANSI 61, CFIA	1-liter bottle	56790
Loctite® 592™	Slow cure allows parts to be repositioned up to 24 hours after application	1-liter bottle	59243
Loctite® 5770™	High temperature; continuous heat resistance up to 530°F (277°C)	250-ml tube	1138281

#### ANAEROBIC FLANGE SEALANT

Product	Description	Package Size	Item Number
Loctite® 515™	Makes flexible gaskets for rigid machined flanges	300-ml cartridge	51580

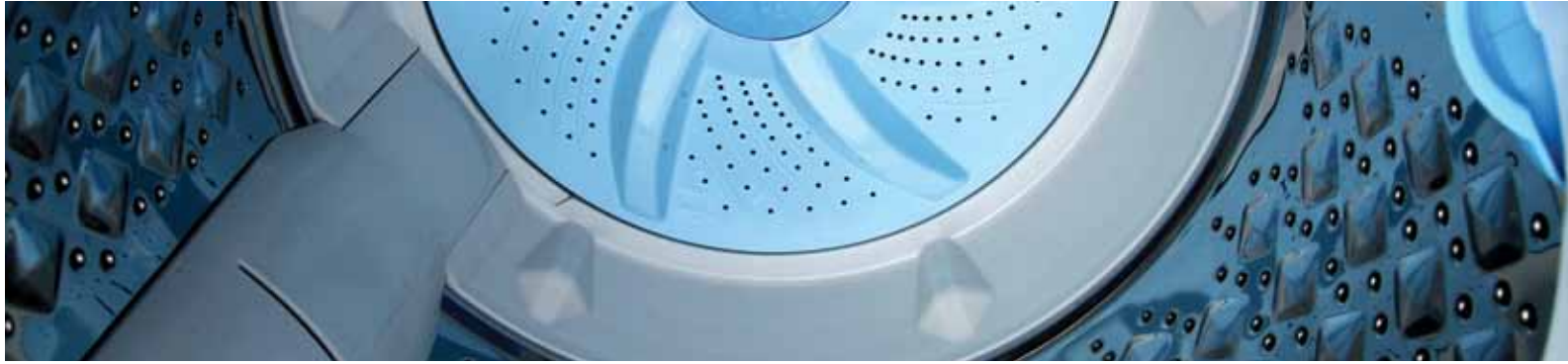
## ANAEROBIC RETAINING COMPOUNDS

Product	Description	Package Size	Item Number
Loctite® 609™	General purpose; medium strength to augment press fits	1-liter bottle	60943
Loctite® 620™	Slip fit/high temperature (450°F/232°C)	1-liter bottle	62085
Loctite® 638™	Slip fit/maximum strength; fixtures in 5 minutes	250-ml bottle	21449
Loctite® 648™	Fast fixturing for close fitting parts, high strength on stainless steel	250-ml bottle	21445
Loctite® 680™	Slip fit/high strength; fixtures in 10 minutes. NSF 61	1-liter bottle	68090

## ACRYLICS

Product	Description	Package Size	Item Number
Loctite® 331™	Ultra-fast fixture in 20 seconds	1-liter bottle	1057674
Loctite® 332™	High temperature resistance	1-liter bottle	33290
Loctite® 392™	Fast fixturing, toughened, can be cured with activator and heat	1-liter bottle	39280
Loctite® 7387™	Depend® Activator for use with Loctite 331™, 332™, 392™	1-quart can	18862
Loctite® H3151™	Impact and peel resistant, extended open time, 1:1 mix ratio	400-ml dual cartridge	83014
Loctite® H4500™	High strength on metals, fixtures in 15 minutes, 10:1 mix ratio	490-ml dual cartridge	83041
Loctite® H8000™	High peel strength, especially on aluminum, 10:1 mix ratio	490-ml dual cartridge	36160
Loctite® H8500™	High shear and peel strength on steel and aluminum, 10:1 mix ratio	490-ml dual cartridge	827608
Loctite® H8600™	Especially designed for severe environments, 2:1 mix ratio	400-ml dual cartridge	38762
Loctite® H8700™	Weld-through capable; resistant to paint bake temperatures, 2:1 mix ratio	400-ml dual cartridge	1064321





### CYANOACRYLATES

Product	Description	Package Size	Item Number
Loctite® 380™ Black Max®	Black toughened, bonds metal, rubber, and plastic	1-lb. bottle	38061
Loctite® 401™	Low viscosity, 0.005" gap	1-lb. bottle	40161
Loctite® 406™	Wicking grade, 0.004" gap	1-lb. bottle	40661
Loctite® 411™	Clear toughened, 0.008" gap	1-lb. bottle	41161
Loctite® 431™	Medium viscosity, 0.008" gap	1-lb. bottle	41256
Loctite® 435™	Clear toughened, 0.006" gap	1-lb. bottle	40995
Loctite® 454™	Gel; particularly suited for bonding porous materials	300-g. cartridge	45478
Loctite® 4204™	Clear, toughened, heat resistant to 250°F (121°C), 0.008" gap	1-lb. bottle	26325

### EPOXIES

Product	Description	Package Size	Item Number
Loctite® E-00NS™ Hysol®	Non-sag, fast fixturing, 1:1 mix ratio	400-ml dual cartridge	29296
Loctite® E-04SS™	Seam sealing; color-matched to stainless steel, 1:1 mix ratio	400-ml dual cartridge	902242
Loctite® E-05MR™ Hysol®	Moisture resistant, fast fixturing, 1:1 mix ratio	400-ml dual cartridge	1086599
Loctite® E-20NS™ Hysol®	Non-sag with 20-minute work life, 2:1 mix ratio	400-ml dual cartridge	29336
Loctite® E-30CL™ Hysol®	Ultra-clear, chemically resistant, glass and plastic bonding, 2:1 mix ratio	50-ml; 200-ml or 400-ml cartridge	237116; 237117; 237118
Loctite® E-30UT™ Hysol®	Contains synthetic fiber for fracture toughness, 2:1 mix ratio	400-ml dual cartridge	1078235
Loctite® E-40FL™ Hysol®	Toughened with 40-minute work life, 1:1 mix ratio	400-ml dual cartridge	29306
Loctite® E-40HT™ Hysol®	High temperature, high shear strength, 2:1 mix ratio	400-ml dual cartridge	1086081
Loctite® E-60HP™ Hysol®	Toughened, high shear, high peel, metal bonding, 60-minute work life, 2:1 mix ratio	400-ml dual cartridge	29321
Loctite® 9460™ Hysol®	Impact resistant, high shear, high peel, non-sag with 50-minute work life, 2:1 mix ratio	400-ml dual cartridge	83127

### LIGHT CURE ADHESIVES

Product	Description	Package Size	Item Number
Loctite® 352™	Resistant to vibration and shock, UV/activator cure	1-liter bottle	35286
Loctite® 3321™	Good for glass, metal, and plastic, UV/visible light cure	1-liter bottle	19740
Loctite® 3494™	Glass and metal bonding, UV/visible light cure	1-liter bottle	29487
Loctite® 3525™	Fast cure, colorless, UV/visible light cure	300-ml cartridge	30221
Loctite® 3972™	Rapid curing adhesive for PVC, PU, and other plastics, UV/visible light cure	1-liter bottle	36295
Loctite® 4310™ Flashcure®	Toughened, 150 cP, light cure cyanoacrylate, cures tack-free extremely fast (2-5 seconds)	1-lb. bottle	1401790
Loctite® 4311™ Flashcure®	Toughened, 900 cP, light cure cyanoacrylate, cures tack-free extremely fast (2-5 seconds)	1-lb. bottle	1401789

## SILICONES

Product	Description	Package Size	Item Number
Loctite® Superflex® RTV Black	Resists aging, weathering, and thermal cycling, UL746C	300-ml cartridge	59375
Loctite® 598™ Black	Forms a tough, flexible, silicone rubber gasket, noncorrosive	300-ml cartridge	59875
Loctite® 5039™ Nuva-Sil®	Cure-in-place gasket compound, UV/visible light cure	300-ml cartridge	40438
Loctite® 5600™	2-part silicone, 5-minute fixture, noncorrosive, UL746C	400-ml dual cartridge	922546
Loctite® 5604™	2-part silicone, 10-minute fixture, noncorrosive, UL746C	400-ml dual cartridge	1138258
Loctite® 5606™	2-part silicone, 20-minute fixture, noncorrosive	400-ml dual cartridge	1250154
Loctite® 5607™	2-part silicone, 50-minute fixture, noncorrosive	400-ml dual cartridge	1252929
Loctite® 5900®	Heavy bodied, low odor, low volatility, form-in-place gasketing, noncorrosive	300-ml cartridge	20166
Loctite® 5905™	Superior flexibility and adhesion, form-in-place gasketing, noncorrosive	300-ml cartridge	38535
Loctite® 5920™ Copper	High performance for rigid flange assemblies, high temperature, noncorrosive	300-ml cartridge	82046

## POLYURETHANES

Product	Description	Package Size	Item Number
Loctite® U-05FL™ Hysol®	Flexible, impact and moisture resistant, 2-part urethane, 1:2 mix ratio	400-ml dual cartridge	29350
Loctite® U-09FL™ Hysol®	Clear, flexible, impact and moisture resistant, 2-part urethane, 1:1 mix ratio	400-ml dual cartridge	29462
Loctite® UK 1366 B10™	Highly flexible structural bonder for metals and plastics; excellent impact and moisture resistance	415-ml dual cartridge	1668032
Loctite® 3497™	White, color-matched seam sealant, 1:1 mix ratio	75-ml dual cartridge	1052917
Macroplast® UK 7816™ / UK 7815™	Room temperature curing foam compound	55-gallon drum	1218743 / 1223143
Macroplast® UK 8103™ / UK 5400™	For use on pretreated metals, synthetic materials, wood, and rigid foam	55-gallon drum	1537966 / 755673

## LOW PRESSURE MOLDING, HOT MELT ADHESIVES

Product	Description	Package Size	Item Number
Macromelt® OM 633™ (638)	Meets low pressure molding requirements; UL 94V-0 flammability rating	20-kg sack	122242; 79123
Macromelt® OM 641™ (646)	Increased strength and hardness	20-kg sack	122243; 122244
Macromelt® OM 652™ (657)	Excellent adhesion and low temperature flexibility	20-kg sack	273329; 251715
Macromelt® OM 673™ (678)	For use where high service temperature performance is required	20-kg sack	319194; 319193





## WATER-BASED ADHESIVES

Product	Description	Package Size	Item Number
Dorus® PL 452A™	Suitable for bonding fibrous glass, jute, and other lightweight insulation, UL2395, UL727	tote	1218381
Adhesin® XA-7594™ Black	Excellent shear strength and adhesion to polyester film	tote	746689
Aquence® AV-7647™	Low viscosity, flame retardant adhesive	drum, tote	1624654; 1624653
Dorus® WL 0294™	Faster setting and perfect for particleboard miter fold bonding	tote	1223075
Adhesin® Core 3053™	Good for laminating cardboard and other porous surfaces	tote	513029
Adhesin® 0885™	Sprayable, waterborne adhesive for bonding lightweight insulation to ductwork	pail, drum, tote	1623006; 1623005; 1623001

## OEM TRAINING SERVICES

### Your Source for Loctite® Products for Design, Assembly, Manufacturing, & Maintenance

Educate your engineers in how to cut costs, improve quality, and increase production through the integration of adhesives into the new product design process.

Each instructional event touches on the wide array of Loctite® product solutions including, adhesives and sealants, dispensing and curing equipment, as well as the unmatched technical support of our product specialists.

#### Product Workshops

##### Loctite® OEM Workshop

This full- or half-day on-site product training is customized to address specific design needs at your manufacturing location.

##### Loctite® OEM Customer Training School

This full- or half-day off-site training is designed specifically for design, process, material and manufacturing engineers who are responsible for assemblies involving the use of adhesives.

#### Industry Workshops

Henkel offers many workshops, which can be customized to provide Loctite® training for various industries and devices.

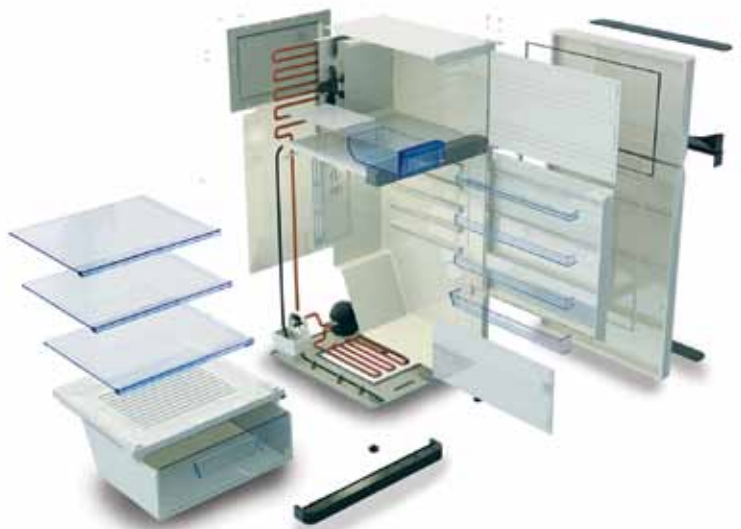
#### Services

##### Plant Survey

A detailed manufacturing process evaluation is performed by a Loctite® Adhesives and Sealants Specialist to identify and document potential cost savings and process improvements.

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Please contact us for further assistance.

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