

# Typical Application Areas

Typical application areas are on engine and powertrain, on exterior and interior systems and components as well as in new and fast developing technologies like automotive electronics and fuel cells.

## Other/Fuel Cell – Climate Control

Fuel cell plates, HVAC ductwork, rubber boots to metal, radiator hose clamps, and other applications

## Chassis

Bolts, connector pins, speed sensor, wheel speed magnets, and other applications

## Engine and Powertrain

Oil pan, front cover, rear seals, T-joint, head & block cup plug, water pump, hoses, transmission housing, coolant system, bearings, dipstick tubes, bed plate, cam chain, timing belt, throttle body, plastic engine covers, range sensors, fuel injection system, cylinder cover, transmission bell housing, axle housing, rotor and hubs, axle tubes, axle cover panel, FWD elements, axle joints & pinion flange, bushing to stabiliser bar, composite/steel sub-frames, brake and ABS modules, caliper and bearing attachments, and other applications



## Electric /Electronic

Magnets to housing, alternators and coils, module housings, rotor magnets, aluminium heat sink (alternator), ignition coils, motor shafts, sensors, wiper motor covers, ECU, TCU, power distribution modules, and other applications

## Exterior

Forward lenses, wiper module, composite roof, halogen bulb socket, aiming rings, HID lighting, side trim, composite panels and bumpers, fog lamps, close-out gaskets, firewall, B-pillars, door handle bezels, license plate brackets, and other applications

## Interior

Door trim, heat ducts, door panels, door handle bezel, speaker grill, baskets, steering wheel cover, instrument panel, door trim fabrics, plastic back plates, foam to fabric, headliners, electric door latches, airbag modules, vent and power steering tubes, seat rails, dome lights, and other applications

## Customer Reference List

### Vehicle Manufacturers - Main Customers

- |                   |           |          |                 |                   |
|-------------------|-----------|----------|-----------------|-------------------|
| ■ Audi            | ■ AutoVaz | ■ BMW    | ■ Case Tractors | ■ Daewoo          |
| ■ DaimlerChrysler | ■ Fiat    | ■ Ford   | ■ GM            | ■ Honda           |
| ■ Hyundai         | ■ Iveco   | ■ Isuzu  | ■ Jaguar        | ■ Kia             |
| ■ Mitsubishi      | ■ Nissan  | ■ Opel   | ■ Porsche       | ■ PSA             |
| ■ Renault         | ■ Saab    | ■ Scania | ■ Seat          | ■ Skoda           |
| ■ Suzuki          | ■ Toyota  | ■ Volvo  | ■ VW            | ■ and many others |

### Sub-Component Manufacturers - Main Customers

- |                           |                  |                          |                   |
|---------------------------|------------------|--------------------------|-------------------|
| ■ Allied Signal/Honeywell | ■ Arvin Meritor  | ■ Autoliv                | ■ Behr            |
| ■ Bilstein                | ■ Bosch          | ■ Bridgestone            | ■ BTR             |
| ■ Carello                 | ■ Continental    | ■ Dana Spicer            | ■ Delphi          |
| ■ Getrag                  | ■ Goodyear       | ■ Hella                  | ■ Hutchinson      |
| ■ ISRI                    | ■ ITT Automotive | ■ JATCO                  | ■ Knorr-Bremse    |
| ■ Koni                    | ■ Limpesa        | ■ Lucas                  | ■ Magneti Marelli |
| ■ Manuli                  | ■ Monroe         | ■ Perkins                | ■ Pirelli         |
| ■ Rockwell                | ■ Scoma          | ■ Siemens VDO Automotive | ■ Temic           |
| ■ TRW                     | ■ Valeo          | ■ Visteon                | ■ Webasto         |
| ■ ZWN                     | ■ ZF/SACHS       | ■ and many others        |                   |

## Specification And Awards

Henkel Loctite products have been specified by every major automotive manufacturer.

Some of the most important specifications and awards are:

Henkel Loctite Certifications:

- QS-9000
- ISO 14000

Customer Awards:

- Ford FSS and Q1
- Chrysler Preferred Supplier
- GM, Honda, Nissan, Toyota Supplier Awards

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