



Vacuum impregnation for cast metal parts

Reliable Sealing Results through High-Quality Impregnation

Henkel is a world-leading supplier of impregnation products and services. With a comprehensive range of proven, innovative solutions for sealing porosities, shrinkage cavities and capillary pores in **cast metal parts**, we enable our customers to meet in full their process needs and the associated industry challenges.

The industry challenge

High-quality metal parts play a vital role in the automotive industry. The reliability and safety imperatives encountered by today's vehicle manufacturers mean that all parts have to be fully sealed against fluids, gases and other external influences. The industry also finds itself under constant pressure to reduce costs, increase productivity and meet environmental regulations.

Our solutions

Henkel's impregnation product solutions and services are designed to provide superior quality in sealing porosities and other defects in cast metal parts. Our response capability centers offer you a fast, high-quality response capability – either on site or close by your manufacturing facility. With an ever-expanding global presence at major OEMs and Tier 1 suppliers, Henkel is your ideal partner for solutions along the entire manufacturing value chain.



LOCTITE High-Performance Impregnation Products

LIS	Chemical type	Cure method	Appearance	Viscosity 23°C, mPa.s	Chemical resistance	Temperature resistance	Resin recycling	Application area
LOCTITE IS 90R	Methacrylate	90°C	Clear, fluorescent	6 – 10	Excellent	-90°C to +200°C	Yes	Castings with typical porosity range
LOCTITE IS 88C	Methacrylate	90°C	Clear, fluorescent	8 – 10	Excellent	-90°C to +200°C	No	Castings with typical porosity range
LOCTITE IS 90C	Methacrylate	90°C	Clear, fluorescent	5 – 20	Excellent	-90°C to +177°C	No	Castings with typical porosity range
LOCTITE IS RTC	Methacrylate	Anaerobic	Clear, fluorescent	5 – 15	Excellent	-90°C to +204°C	No	Casting with macro porosities, powder metal



Process optimization

- > Improved quality and better performance thanks to our best-in-class product portfolio and high-speed impregnation service on site or close by
- > Exceptional sealing quality thanks to clean, operationally efficient facilities
- > Individual validation testing and on-site service personnel ensure tailored product and service concepts



Cost reduction

- > Lower overall costs through reducing scrappage caused by porosities and other structural defects



Sustainability

- > Improved ecological footprint thanks to a recycling system to continuously recover impregnation resin from the wash water

Europe

Germany

Henkel AG & Co. KGaA
(Headquarters)
Henkelstraße 67
40589 Düsseldorf
Germany
Phone: (+49) 211 797-0

Americas

U.S.A.

Henkel Corporation
Madison Heights
32100 Stephenson Highway
Madison Heights, MI 48071
United States
Phone: (+1) 248 583 9300

Asia-Pacific

China

Henkel (China) Co. Ltd.
No. 928 Zhang Heng Road
Pu Dong
201203 Shanghai
China
Phone: (+86) 21 2891 8000

www.loctiteimpregnation.com

The data contained herein are intended as reference only. Please contact Henkel AG & Co. KGaA for assistance and recommendation on specifications for these products.

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