



Vacuum impregnation for die-cast and powdered metal parts

RELIABLE SEALING RESULTS THROUGH HIGH-QUALITY IMPREGNATION

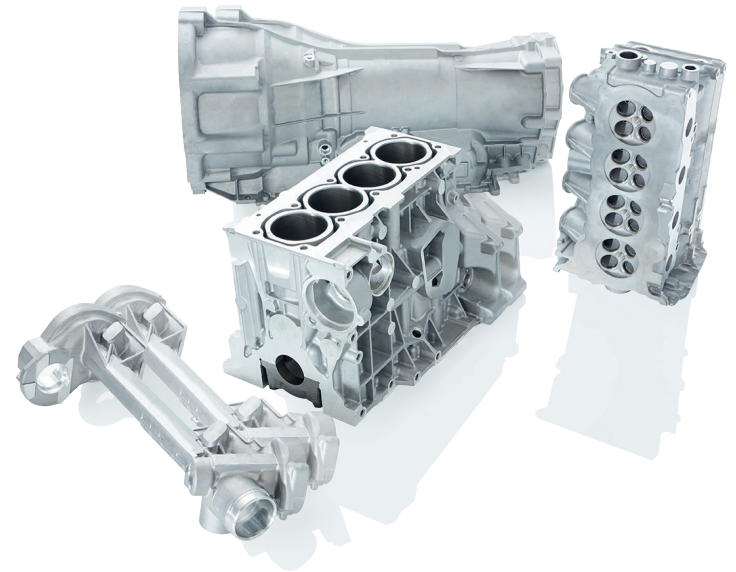
Henkel is world-leading supplier of impregnation products. With a comprehensive range of proven, innovative solutions for sealing porosities, shrinkage cavities and capillary pores in **metal parts**, we enable our customers to meet in full their process needs and the associated industry challenges.

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 environmental conditions instead of 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 die-cast and powdered metal parts. Our North American impregnation service center affiliates offer high-quality manufacturing equipment and processes. 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.





Process optimization

- Improved quality and better performance thanks to a best-in-class product portfolio
- Service center affiliates available to assist across North America



Cost reduction

Lower overall costs by reducing scrappage due to porosity and shrinkage

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 89C | 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 |
| LOCTITE IS RTC ECO | Methacrylate | Anaerobic | Clear, fluorescent | 5 – 15 | Excellent | -90°C to +204°C | No | Casting with macro porosities, powder metal |

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