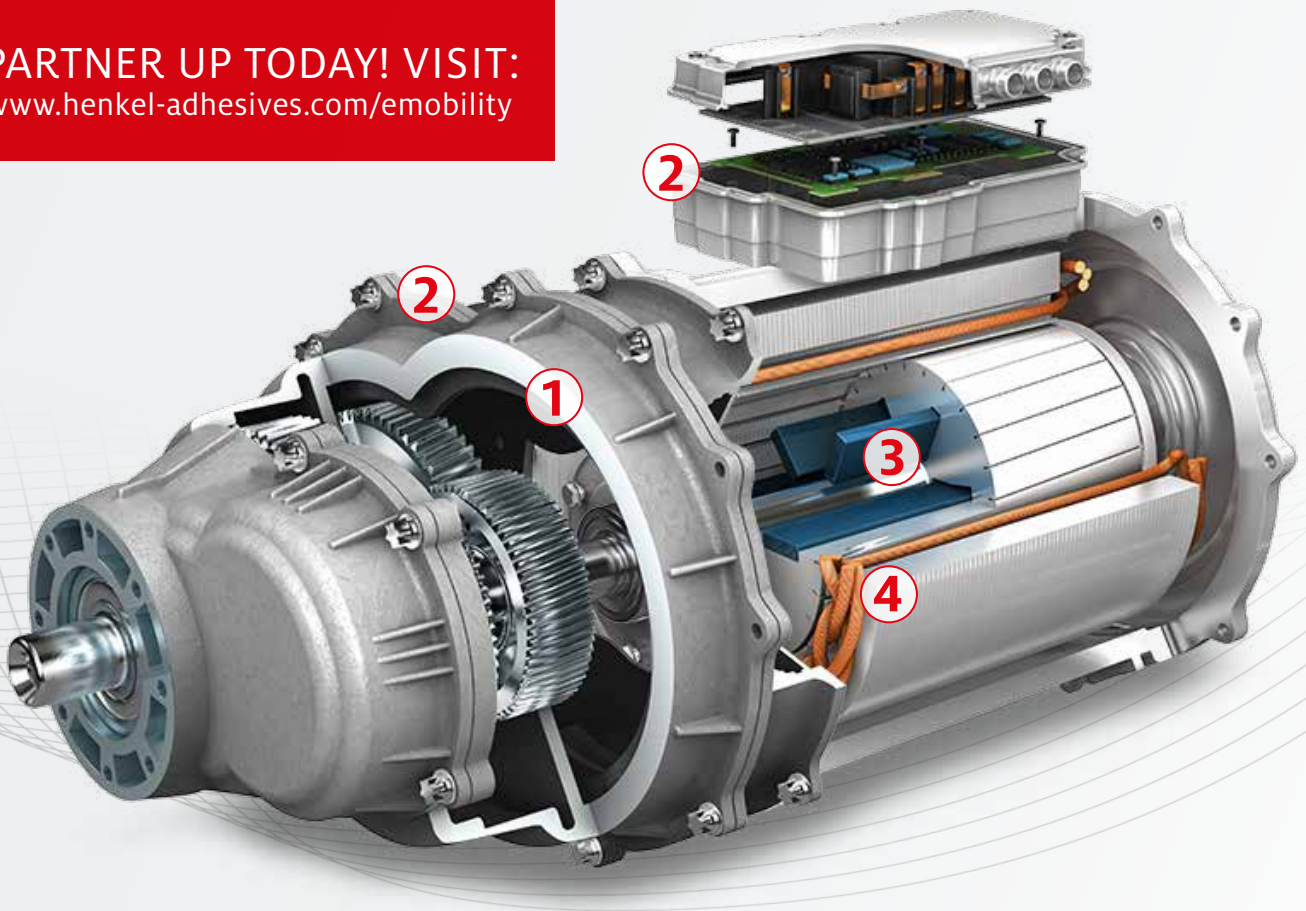


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www.henkel-adhesives.com/emobility



① Impregnation Service
Aluminum Casted Housing

② Gasketing
*E-Drive Housing/
ECU Housing*

③ Magnet Bonding
Magnet-to-Stator

④ Thermal Potting
Induction Coil

Henkel Technology Solutions for EV e-Drive Systems

Our broad solution portfolio has been specifically designed with a focus on:



System Cost

- » Short cycle times
- » Automated production process



Safety & Reliability

- » Thermal management
- » Oil / ATF resistance



Lifetime Performance

- » Temperature resistance
- » Serviceability



Power Enhancement

- » Thermal management of e-motor
- » Electrical insulation performance

Driving e-Mobility, together.



Henkel Technologies for EV e-Drive Systems

POTTING MATERIALS

Product	Chemistry	Thermal value	Viscosity (mixed)	Key properties
LOCTITE PE 8083 ¹	Epoxy	1.0 W/mK	15,000 – 25,000 mPa·s	High lap shear strength (20 Mpa), high decomposition temperature (350 °C)
LOCTITE SI 5631 ¹	Silicone	1.0 W/mK	5,000 mPa·s	Low viscosity at RT, high elongation rate (> 180%)
LOCTITE STYCAST 2850FT CAT 27-1	Epoxy	1.1 W/mK	150,000 mPa·s	Small filler size to fill small gaps, good physical and chemical properties at high temperatures

GASKETING

Product	Chemistry	Curing	Serviceability	Key properties
LOCTITE AA 5820 ²	Polyacrylate	Humidity / FIPG	No	Durable for heavy duty applications, ATF and high temperature resistance, compatible with BERGQUIST GAP FILLERS®
LOCTITE AA 5884	Polyacrylate	UV / CIPG	Yes	Quick cure, durable for heavy duty applications, compressible for good sealing capability, ATF and high temperature resistance, non-silicone
LOCTITE SI 5970	Silicone	RTV / FIPG	No	High temperature stability, good moisture barrier, multi-substrate bonding
BERGQUIST TLB 400SLT	Silicone	RTV or heat	No	Thermally conductive, glycol resistance, high elongation, multi-substrate bonding, compatible with BERGQUIST GAP FILLERS®

No Number: Available globally | 1: Available only in APAC | 2: Available only in EU and APAC

IMPREGNATION SERVICE

To impregnate porosities in aluminum casted components, Henkel offers 2 main service solutions:

- On-site: temporary installation of a small but customized impregnation service center
- Close-by: enjoy the advantages of our sealing solutions from an external impregnation service center located close-by your manufacturing plant

Our Global Network of Impregnation Centers



GET IN TOUCH WITH US

Europe

Matthias Brachmann
matthias.brachmann@henkel.com
+49 151 6801 0410

Asia Pacific

Duke Oh
duke.oh@henkel.com
+82 10 2591 5880

North America

Bill Brown
bill.brown@henkel.com
+1 248 577 5992

Or visit: www.henkel-adhesives.com/emobility

