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## TECHNICAL DATA SHEET

### **ergo.® 3160 Super RTV Silicone GREY**

Neutral cure one-component RTV silicone formulated for use in a wide range of industrial applications. **ergo.® 3160 Super RTV Silicone GREY** is low odor and non-corrosive because the by-products of cure are chemically neutral.

The product is characterized by its high temperature resistance, mechanical strength and resistance to vibration as well as its excellent resistance to weathering and many chemicals, specifically engine and gearbox oils and glycol mixtures.

#### **Typical applications**

**ergo.® 3160 Super RTV Silicone GREY** is an adhesive and sealant that achieves optimum seals, protection and adhesion to a wide variety of materials. It is typically used in situations that require bonds or seals to surfaces in heating or cooling devices. It is also suitable for insulating and protecting electronic and electrical components from external forces, such as vibration, impact, moisture and many chemicals:

Bonding and sealing parts in household appliances (e.g. ovens and ceramic hobs), seals in electronic components (e.g. accumulators and transformers) and seals in automotive applications (e.g. intake manifolds, water pumps, oil pumps, front covers, camshaft bearing covers, thermostat housings, oil pans, gearbox covers and drive axle covers).

#### **Characteristic features in liquid condition:**

Chemical basis	modified oxime silicone
Appearance	grey, thixotropic paste
Density @ 20°C	1,25 g/cm <sup>3</sup>
Viscosity @ 25°C (EN 12092, Cone-plate-system, MK25)	
shear rate 10 s <sup>-1</sup>	60.000 – 80.000 mPa•s
100 s <sup>-1</sup>	15.000 – 25.000 mPa•s
Extrusion rate (at 25°C, 5,5 bar, 3 mm opening)	150 – 250 g/ 15 seconds
Volume shrinkage	5 – 7 %
Loss of weight	1 – 3 %
Skinning time	5 - 10 minutes
Curing process	2 – 3 mm/ 24h at 50% r.h.



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### Typical characteristics of cured product (after curing @23°C/ 50% r.h.)

Tear resistance (DIN 53504 S2)	~ 2 N/mm <sup>2</sup>
Elongation at break (DIN 53504 S2)	~ 550 %
Recoverability (DIN EN 27389)	~ 90 %
Hardness (Shore A)	~ 26
Thermal range	-60°C up to +260°C shortly up to +300°C
Coefficient of elongation (ASTM EB-31)	20 x 10 <sup>-5</sup> K <sup>-1</sup>
Dielectric constant @ 1 MHz (ASTM D-150)	2,8
Shelf life	1 year in 310ml cartridge 2 years in 200ml pressurized can

The information in this catalogue is based on the results of our research and experience. However, the suggestions herein concerning the use, application, and processing of the products (collectively, „the methods“) **are non-binding recommendations only**. It is the user's sole responsibility to determine the suitability and safety of these methods, based on the user's particular purpose in using the products.

Before relying on the reliability and safety of any parts that are bonded using the products, it is extremely important that the user test the reliability and safety of the parts that are bonded. Failure to do so could result in serious personal injury.

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