

Preliminary Data Sheet Trishield Silicone Rubber Nolato 8550

Nolato 8550 is a silicone rubber used to produce gaskets by dispensing directly on industrial components.

Nolato 8550 key properties:

- Typical gasket height from 0,5 to 3,0 mm.
- Recommended compression between 10 and 50%.
- Operating temperatures between -40°C and +150°C.
- Good adhesion to most metal and plastic surfaces.
- Low viscosity offers short cycle times in any dispensing machine.
- Thermal cure silicone.

Applications

Nolato 8550 is particularly suitable for economical production of gaskets on large series of aluminium castings. Typical applications include environmental sealing gaskets.

Typical Product Data

	Test procedure	Unit	8550
Base material			Silicone rubber
Filler			Magnetic filler
Density		g/cm ³	1,3
Viscosity mixed. at shear rate 10 ^{s-1}	Nolato FOU-04/5	Pas	60
Adhesion	Nolato FOU-04/7		Cohesive failure

Mechanical Properties

	Test procedure	Unit	8550
Density, cured	ISO 12154	g/cm ³	1,5
Hardness	ISO 48-4	Shore A	47
Tensile strength ¹⁾	ISO 37	MPa	4,8
Elongation at break	ISO 37	%	224
Tear strength ²⁾	ISO 34-1C	N/mm	14
Compression set, 72 hours/100°C	ISO 815	%	31

¹⁾ 1 MPa = 145 psi ²⁾ 1 N/mm = 5,71 lb/in

Processing

Nolato 8550 is a two-component compound of pasty consistency. The component A and B are delivered with a shelf life of 9 months if stored at -18°C. The components are mixed in a ratio of 1:1 by weight prior to use. The dispensed gasket could be given a narrow shape in the Trishield 2.0 forming unit*. Curing is normally done in a hot air oven at 150°C for 30 minutes. For detailed information please refer to the "Trishield mixing and handling instruction".

RoHS Information

Nolato 8550 fulfils the requirements set by the EU RoHS Directive 2011/65/EU and its amendment 2015/863/EU.

Safety Instructions

Nolato 8550 is according to EU directive 1272/2008 (CLP) classified as hazardous, due to the content of nickel. Nickel may cause sensitisation by skin contact. It is advisory to never touch the gasket without gloves. A material safety data sheet can be sent on request.

Warranty

The recommendations and data given are based on our experience to date, however, no liability can be assumed in connection with their usage and processing. Typical property data should not be used as a specification.

* Production of Trishield gaskets requires a license from Nolato. The licence includes rights to produce and market Trishield gaskets and technical support and the special forming.