

Technical Data Sheet Black RTV Gasket  
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# BLACK RTV GASKET

**Acetic cross-linked RTV silicone for seals,  
high temperature resistant**

## DESCRIPTION

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Black RTV Gasket is a one-component silicone sealant, designed primarily for sealing flanges with good engine oil resistance. It meets high requirements for joint movement resistance, such as in stamped sheet metal covers, distribution cases and oil pans.

## AREAS OF APPLICATION

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Developed for the automotive industry, it replaces preformed gaskets made of cork, felt, paper, rubber or cover preformed gaskets to improve sealing. Good resistance to fuels, transmission fluids, antifreeze fluids (for short-term contact). Low volatility product (according to specifications O.E.M. specifications for engines equipped with oxygen sensors).

## FEATURES

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- Forms a durable silicone gasket
- Non-sagging
- Extreme operating temperatures, from -40 °C to +250 °C
- Resistant to oil, transmission fluids, water and antifreeze
- Easily applied, resistant in a few minutes

## TECHNICAL DATA

<b>Apparence</b>	Thixotropic paste without sagging - Black
<b>Chemical nature</b>	Acetic cross-linked silicone
<b>Specific Gravity</b> [g/cm <sup>3</sup> ] (NPT Metodo 06) (23°C and 50% UR)	ca. 1.03
<b>Curing through</b> [mm] (NPT Metodo 07) (24h - 23°C and 50% UR)	>3.0
<b>Hardness Shore A</b> (ISO 868)	Ca. 22
<b>Skin Time</b> [min] (NPT Metodo 17) (23°C and 50% UR)	Ca. 15
<b>Elastic modulus at 100%</b> [N/mm <sup>2</sup> ] (ISO 8339)	Ca. 0.47
<b>Tensile strength</b> [N/mm <sup>2</sup> ] (ISO 8339)	Ca. 0.7
<b>Tear strength</b> [%] (ISO 8339)	Ca. 4.2
<b>Elongation at break</b> [°C]	Ca. 250
<b>Application temperature</b> [°C]	from +5 to +40
<b>Temperature Resistance</b> [°C]	From -40 to +250 (with peaks max 300)

## APPLICATION

For maximum adhesion performance, the surfaces concerned must be dry and clean; in particular degreasing solvents can be used to remove grease or oil. Adheres to most surfaces (aluminium, also anodised, glass, ceramics). If there are adhesion problems on particular surfaces, it is advisable to consult the manufacturer for the choice of a specific primer. The product is not overpaintable. Drill the outlet nozzle, screw on the nozzle, cut it at an angle to the desired thickness and then apply. Once opened, the packages must be used within a relatively short time. The optimum working temperature for both substrate and sealant is between 15°C and 25°C. Smoothing and finishing must be carried out within the open time (skin formation time) of the sealant. As the system is hygro-hardening, allow sufficient exposure to air. Black RTV Gasket should not be used for IG assembly and is not recommended for insulating or structural glazing applications, sealing aquariums or long-term use under water. Not suitable for food contact applications, in which case use S-Sil Food, ANSI 51 certified.

## CLEANING OF EQUIPMENT AND PERSONAL PROTECTIVE MEASURES

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Clean the tools used with white spirit. Once hardened, the product can only be removed mechanically. Avoid contact with the skin by using latex, rubber or polyethylene gloves. If it comes into contact with the skin, remove immediately and wash with soap and water.

## PACKAGING

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Tube 80 ml in blister                      12 pieces per box

## STORAGE AND SHELF LIFE

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Black RTV Gasket can be stored for 18 months in the original packaging. Storage temperature between 10°C and 25°C in a cool, dry place. Keep away from sources of moisture, heat sources and from direct contact with sunlight.

## GENERAL INFORMATION

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The information contained in this data sheet represents the best of our knowledge. However, this document cannot be regarded as a guarantee that the product will be used and applied in accordance with the instructions provided. Successful application is beyond our control and depends on many factors. We accept no responsibility for the misuse of the product, the recommendations in this document should be considered general guidelines. If any doubts remain, please carry out preliminary tests. NPT Srl, reserves the right to modify and update the data sheet without prior notice. Customers are kindly requested to check that they have the latest version.

ALWAYS CONSULT THE SAFETY DATA SHEET BEFORE USING THE PRODUCT