

# DINITROL 9100

## Polyurethane Windscreen Adhesive

### Characteristics:

DINITROL 9100 is a one component cold-applied polyurethane adhesive designed for the direct-glazing of automotive glasses. The properties of the adhesive DINITROL 9100 are the following:

- good adhesion on paints
- fast curing
- high modulus
- low odour
- excellent working characteristics
- low conductive
- high elasticity
- solvent and PVC free
- works at all vehicles
- works at ambient temperatures from -18°C to 45°C
- OEM approved
- Crash test approved acc. FMVSS 212
- ageing and weather resistant

Together with the corresponding pre-treatments the adhesive DINITROL 9100 is designed for the use in replacing polyurethane direct-glazed automotive glass parts and other bondings in vehicle manufacturing. The adhesive's high modulus property contributes remarkably to the stiffening increase of the car body. DINITROL 9100 is a low conductive adhesive which enhances contact corrosion between the adhesive and the car body.

### Application:

The application of the DINITROL 9100 is done by extrusion out of foil wraps and cartridges. The use of this product is suitable only for experienced users. Pre-tests are recommended for special applications.

#### *Further information:*

- Material safety data sheet

### Storage:

Storage between 0 and 35°C.

### Available packagings:

Cartridges: 310 ml      Foil wraps: 400 ml and 600 ml

Die in diesem Merkblatt gemachten Angaben sind das Ergebnis sorgfältiger Untersuchungen. Soweit sie sich auf die Anwendung beziehen, sind sie als Empfehlung zu betrachten, die dem Erfahrungsstand entsprechen. Wegen der Vielseitigkeit der Anwendungs- und Arbeitsweisen können wir jedoch eine Verbindlichkeit nicht übernehmen. Es wird daher ein vertragliches Rechtsverhältnis nicht begründet, und es entstehen aus eventuellen Kaufverträgen keine Nebenverpflichtungen.

All data and recommendations are the result of careful tests by our laboratories. They only can be considered as recommendation which correspond to the level of experience of today. The data are given in good faith. However, in view of the multiplicity of possible application and working methods we are not in a position to assume any responsibility or obligations deriving from the use of our products.

DINOL GmbH  
Pyrmonter Str. 76  
D-32676 Lügde  
Telefon:  
+49 (0) 52 81 / 9 82 98-0  
Telefax:  
+49 (0) 52 81 / 9 82 98-60  
E-Mail:  
service@dinol.com

## DINITROL 9100

Polyurethane Windscreen Adhesive

### Technical properties:

Chemical base:	Polyurethane
Colour:	black paste
Cure mechanism:	humidity-curing
Density (DIN 53217-4):	approx. 1'200 kg/m <sup>3</sup>
Non-sag properties:	very good
Application temperature:	15°C – 35°C
Skin formation time <sup>1</sup> :	approx. 12 – 15 min.
Open time <sup>1</sup> :	approx. 13 min.
Rate of cure:	approx. 3.5 – 4 mm / 24 h
Shore A hardness (DIN 53505):	approx. 61
Tensile strength (DIN 53504):	approx. 10 MPa
Elongation at break (DIN 53504):	approx. 500%
Tear strength (DIN 53515):	approx. 12 N/mm
Lab-shear-strength (DIN EN 1465):	approx. 7 MPa
G-modulus (DIN 54451):	approx. 2.5 MPa
Volume resistivity (DIN 60093):	approx. > 10 <sup>7</sup> Ωcm
Glass transition temperature:	approx. - 40°C
Temperature resistants: short term (approx. 1h)	< 80°C < 120°C
Shelf life (storages below 25°C): cartridges / foil wraps drums / pails	12 month 6 month
Safe-Drive-Away-Time <sup>1</sup> (FMVSS 212/208) without airbags with passenger airbags	30 min. 30 min.

<sup>1</sup>) 23°C / 50% rf

Health and safety information can be obtained from the material safety data sheet and the product label.

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