

PRODUCT INFORMATION

ALPA Gel DE



Addition-curing, solvent-free RTV two-component silicone gel.

- Low viscosity for easy pouring
- Crystal clear
- IP 68 approved
- Curing without shrinkage (less then 0,1%)
- Curing may be accelerated by heat
- Excellent mechanical properties

ALPA Gel DE is predestined to protect electronic components. The silicone gel protects sensitive components from moisture and through its good mechanical damping properties from shocks and shaking. The silicone gel retains these properties over a wide temperature range.

TECHNICAL DATA

	A-Component ALPA-GEL DE	B-Component ALPA-GEL DE	
colour	transparent	transparent	
Spefic gravity	0,98	0,98	g/cm ³ DIN 53 479 ¹⁾
Viscosity	250	4000	mPas
	Mischung		
Mixing ratio	1 : 1		by weight ¹⁾
Viscosity	2000		mPa*s ¹⁾
Worklife time	30		min ¹⁾
Curetime	2		h ¹⁾
Penetration (20° C)	43		mm/10 DIN ISO 2137 (1/4 konus)
Durchgangswiderstand	1*10 ¹⁵		Ohm*cm
Durchschlagsfestigkeit	20		kV/mm
Dielektrizitätskonstante (1000 Hz)	2,8		ε _r

Der Platinkatalysator befindet sich in der A-Komponente

¹⁾ = Measured at standard climate according to DIN 50 014-23/50-2.

ALPA GEL DE

PROCESSING

1. Mixing the two components

ALPA-GEL DE component A + B are mixed by weight in a fixed ratio given above.

The two components may be thoroughly mixed either by hand or using a low-speed electric or pneumatic mixer to minimise the introduction of air and to avoid any temperature increase.

Futher information is available upon request.

2. Polymerisation

The RTV-system, as indicated in the technical data, polymerises at 23 °C. The curing may be slowed down at lower temperature and contrary accelerated by applying heat.

In general contact with certain materials can inhibit the crosslinking of RTV. See list below:

- natural rubbers vulcanised with sulphur
- RTV elastomers catalysed with metal salts, e.g. tin-compounds
- PVC stabilised with tin salts and additives
- epoxy catalysed with amines
- certain organic solvents, e.g. ketones, alcohols, ether etc.

In case of doubts, it is recommended to test before.

SPECIAL NOTES

Storage

ALPA-GEL K must be used within 12 months of the manufacturing date.

Keep the original packaging closed and at a temperature below 30 °C and frost protected.

SAFETY

The usual precautions have to be taken into consideration in case of contacts with ALPA-GEL DE.

Warning to users:

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products.

For safety related data please refer to the safety data sheet !

Please note: All given data are based on careful examination in our laboratories and our past practical experience. These are non-binding indications. Given the high number of materials appearing on the market and the different methods of use which are beyond our influences and control, we naturally cannot accept any responsibility for the results of your work, also with regard to third party patent rights. We recommend that sufficiently thorough tests be carried out to ascertain whether the product described will meet the requirements of your particular case. Please also note our Terms of Sale, Delivery and Payment. This Product information replaces all previous issues.

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