

NEUKADUR VG ALU

Epoxy Casting Compound
Aluminium-filled

altropol

Main features

- hard
- heat-resistant
- machinable

Applications

- tool manufacture in the face casting
- vacuum thermoforming moulds
- foaming moulds
- foundry facilities

Properties in the non-crosslinked state (approx. values)

		NEUKADUR VG ALU	NEUKADUR Hardener VG L	NEUKADUR Hardener T 39	NEUKADUR Hardener T9
Colour		grey	yellowish	yellowish	yellowish
Mixing ratio	p.b.w.	100	10	8	8
Density (20 °C)	g/cm ³	1.8	0.95	0.95	0.95
Viscosity (20 °C)	mPa·s	60,000	150	100	100

Properties of the mixture (approx. values)

Mixed viscosity	mPa·s		10,000	12,000	9,000
Pot life (1000 g)	minutes		180	85	180
Curing time	hours		48	36	48
Density	g/cm ³	DIN 53479	1.7	1.7	1.7
Hardness	Shore D	DIN 53505	84	86	85

Mechanical values of the cured product (approx. values)

Dimensional stability under heat	Martens °C	DIN 53458	100	96	96
Tensile strength	MPa	DIN 53455	*	*	*
Elongation at break	%	DIN 53455	0.3	1.4	*
Modulus in flexure	MPa	DIN 53457	4,300	9,000	*
Compressive strength	MPa	DIN 53454	*	*	*
Thermal conductivity	W/K · m	DIN 52612	0.65	0.65	0.65
Coefficient of linear thermal expansion	10 ⁻⁶ K ⁻¹	VDE	38	38	38
Linear dimensional change	mm/m		0.3	0.5	0.4

*RT = room temperature

How to process the material

Before every use, stir up the resin component thoroughly as otherwise the fillers might deposit. Mix in the hardener component with care but intensively to ensure an optimal wetting and to prevent air inclusions. We recommend letting the mixed casting resin compound rest for 10 to 15 minutes before casting it in order to allow the possibly incorporated air to escape. The pot life depends on the temperature and batch size involved.

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Form of delivery

NEUKADUR VG Alu	1 kg	10 kg
NEUKADUR Hardener VG L	0.1 kg	1 kg
NEUKADUR Hardener T 39	0.2 kg	0.8 kg
NEUKADUR Hardener T 9	0.2 kg	0.8 kg

Storage

We recommend keeping the material in tightly closed original receptacles at temperatures of 20 - 25 °C. When duly stored, the material can be used within the shelf life indicated on the labels (the first 2 digits of the batch number indicate the week, the 3rd digit indicates the year).

Measure of precaution

With the aid of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, the user can inform himself on the safe handling and storage of the products.

Our technical service - in words, in writing or by trials - is given according to the current state of our knowledge. It does however not relieve the customer/user from the duty to check by himself if the products supplied by us are suitable for the intended processes and purposes. Application, use and processing of the products take place beyond our control possibilities and lie therefore exclusively in the area of responsibility of the processor. Any existing property rights of third parties are to be considered. We guarantee the perfect quality of our products in accordance with our general terms and conditions of business. When handling our products you have to observe the legal rules and the rules for the industrial hygiene. As for the rest, we refer to the corresponding safety data sheets.

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