

# SIRESTER<sup>®</sup> VE 45-M-90/AT

## PRODUCT DATA SHEET

RV/45M90AT/022017

### Description

Vinylester, epoxy-bisphenol A based resin, diluted in styrene, accelerated and thixotropic, with medium reactivity and viscosity.

### Applications

SIRESTER<sup>®</sup> VE 45-M-90/AT is indicated for general purposes, in all those cases where high chemical resistance towards a wide range of substances is demanded. The excellent mechanical properties make it suitable for different and wide fields of application.

### Sales specification

Properties	Value	Unit	Method
Acid number	< 10	mg KOH/gr	SIR 10231

### Typical Properties

Properties	Value	Unit	Method
Appearance	Turbid liquid		SIR 10010
Thixotropic index	> 2,5		SIR 10215
Viscosity at 25 °C 2 rpm	> 2000	mPa s	SIR 10215
Viscosity at 25 °C 20 rpm	< 800	mPa s	
Gel time at 25 °C <sup>(1)</sup>	23	minute	SIR 10344
Styrene content	43	%	SIR 10352
Shelf life at 65 °C	6	day	SIR 10242

(1) Formulation: 100 g resin + 1.25 ml MEKP 50%.

During long storage a slight increase of the gel time can occur: we suggest to adjust the amount of catalyst in order to obtain correct values.

SIRESTER<sup>®</sup>: SIR INDUSTRIALE registered trade mark.

N.B.: The data given in this brochure do not constitute characteristic properties of the single product.

To our best knowledge, the information contained in this brochure is accurate and corresponds to the truth.

However, any recommendations or suggestions are provided without any guarantee, since the conditions in which the products are used are not under our control. Furthermore, nothing contained in this brochure shall be interpreted as a recommendation for using the product in violation of any patents relating to the material and their uses.

**Mechanical properties of pure cured resin**

Property	Value	Unit	Method
Barcol hardness	45		EN 59
Flexural strength	150	MPa	EN 63
E-Module, flexion	3800	MPa	EN 63
Tensile strength	85	MPa	EN 61
E-Module, tension	3300	MPa	EN 61
Elongation at break	5	%	EN 61
HDT	102	°C	EN ISO 75 A
Tg	115	°C	ASTM D-3418

**Mechanical properties of reinforced resin (glass/resin 30/70)**

Property	Value	Unit	Method
Flexural strength	230	MPa	EN 63
E-Module, flexion	8000	MPa	EN 63
Tensile strength	130	MPa	EN 61
E-Module, tension	8300	MPa	EN 61

**Supply Form**

Product is available in a 200 kg. lined drum, 1000 kg. container or in bulk.

**Storage stability**

The product is stable for 3 months if stored in a stainless steel tank or lined drums (avoid glass fibre based containers or tin plated drums), at 20 °C temperature, in a dark/ventilated place. Keep away from iron and copper salts, organic and inorganic peroxide. A long period of storage can cause slight segregation of the solid part of the product: stirring the material before using is strictly suggested.

**Safety**

The product is flammable and harmful.

Further information is provided in the relevant safety data sheet.

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