



# RESINA VINILESTERE

**GELSON®**AZIENDA CON SISTEMA QUALITÀ  
CERTIFICATO DA DNV  
UNI EN ISO 9001

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## PRODUCT DATA SHEET

Rev. 1 dated 11/09/2009

Vinylester resin, preaccelerated, thixotropic, contains a color indicator to show perfect mixing. Does not contain wax or paraffin of any kind.

It gives the composites excellent characteristics of mechanical, chemical and osmosis resistance.

Application: Mould making (cold pressing) – Boats (both as a skincoat and for the construction of the whole boat, thus obtaining the maximum possible performance).

Can be used both in hand lay-up and in spray-up. Intervals between layers should be shorter than 24 hrs. In case of longer intervals, abrasion may be necessary to obtain optimal interlaminar adhesion.

This resin should be used at a temperature of 15-25°C, especially if catalyzed with average-reactivity MEKP. For longer gel-time at higher temperatures, low-reactivity MEKP is recommended.

A mixture of MEKP50/AAP (acetyl acetone peroxide) gives a shorter pot-life with higher exothermic peak.

When MEKP is used as a catalyst, the resin should be conditioned to room temperature until it reaches a minimum temperature of 15°C.

Shake well before use.

Catalyse at 1.25% - 2% (depending on temperature).

### CHARACTERISTICS

Appearance: cloudy blue liquid

Specific gravity: 1.11 g/cm<sup>3</sup> ± 0,02

Viscosity at 25°C: 600-650 mPa.s (Brookfield RVF, Spindle#3, 60 rpm)

Thixotropy index: 3.2 – 4.1 (Brookfield RVF, Spindle#3, 6/60 rpm)

Styrene content: 32/34%

Water content: max 0,1%

Gel-time at 25°C: 30 – 32 minutes (100g Resin, 1.25g MEKP50 – LUPEROX K1)

Time at peak: 11 – 15 minutes

Exothermic peak: 140-180°C

### PURE CURED RESIN MECHANICAL PROPERTIES\*\*:

Tensile Strength: 81 Mpa (ASTM-D-638)

Tensile Elongation: 2,7 % (ASTM-D-638)

Tensile Modulus: 4.1 Gpa (ASTM-D-638)

Temperature (HDT) : 105°C (ASTM-D-648)

Tg: 123°C (DIN 53445)

Barcol Hardness: 48 (ASTM-D-2583)

\*\*catalysis ratio: 100 g resin + 1.25 g Luperox K1

The tests were run on cured samples, kept at room temperature for 24 hours and 2 hours at 100°C.

### STORAGE:

6 months, in the original container, stored in a cool and dry location.

Storage temperature < 25°C.





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### AVAILABLE PACKAGINGS

Code	Colour	Packaging
MS65612		5 litres
MS65613		750 ml
MS65614		200 litri

*The effectiveness of our products is based on practical experience and research carried out in our laboratory. However, we decline any responsibility for work carried out, as it is evident that the result can be strongly influenced by a series of factors beyond our control.*