



*Kimya Resin Arak Chemical Industrial Company*  
*Issued Sales Specification*

**Name of Product**                      **Revision Date**      **Unsaturated Polyester Resin**    **13-Dec-2022**

**Specification of Unsaturated Polyester Resin**

**CAS#: 100-42-5**

PROPERTIES	UNIT	METHOD	RESULT
Viscosity at 25°C	Second	ISO 2555	93 ( <i>flow cup viscosity</i> )
Density at 23°C	<i>g/cm<sup>3</sup></i>	ASTM D1475	1.10-1.125
Gel Time	Minute	ASTM D2471	6-25
Solid Percentage	<i>Wt%</i>	ASTM D1259	66±2
Acid Number	<i>g KOH/g</i>	ASTM D1639	Max35
Exothermic Peak	°C	ASTM D2471	Max195
Appearance	—	Visual Inspection	Clear & Bright

**Note:**

Gel time, acid value, and viscosity can be adjusted according to customer requirements.

**APPLICATION:**

Ortho resins are condensation polymers of Unsaturated Polyester Resins which manufactured by reaction of maleic anhydride and diacid (orthophthalic acid) on polyol (glycols) then diluted in styrene. Orthophthalic resins are used where high hydrolysis and thermal resistance is needed especially for the production of pipes and tanks and for marine applications.

**Safety, Handling and Storage:**

Full information of the Safety, Handling and Storage of Unsaturated Polyester Resin is available on its MSDS.

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