



TECHNICAL DATA SHEET

AROPOL DT3S3

DESCRIPTION: AROPOL DT3S3 resin is a medium-high, low viscosity, unsaturated polyester resin, characterized by its hardness, elasticity, high impregnation strength, and high filler capacity. The raw materials used in the manufacture of this resin are listed as acceptable in FDA regulation Title 21 CFR 177.2420 for repeated use in contact with food subject to user's compliance with the prescribed limitations of that regulation.

GENERAL CHARACTERISTICS: AROPOL DT3S3 has excellent mechanical properties as well as very good toughness. It also has a very good chemical resistance towards fuel oil (Approval by German Institute for structural engineering DIBT) and a high distortion temperature.

APPLICATIONS: AROPOL DT3S3 can be processed by means of hand lay-up, spray-up and particularly by injection or RTM method for the manufacturing of FRP moulded parts like pipes, vessels, hoods, light domes, sandwich elements as well as polymer concrete parts by vibratory casting process.



VISCOSITY and Gel Times can be adjusted to meet conditions that customers may require

TYPICAL *LIQUID RESIN PROPERTIES (23 °C)

Percent Solids	60 – 64 %
Viscosity - Brookfield, cps spindle 3@ 60 rpm	350 – 450 cps
Monomer	Styrene
Color, Gardner	2 max
Acid Value	20 max
Flash Point Range, °C	23 - 38
Stability (dark place)	6 months

TYPICAL CURING CHARACTERISTICS:

Resin= 100 g

Cobalt 1 %	Butanox M60	Temperature °C	Gel Time minutes	Total minutes	Peak Exothermic
1.0 %	2.0 %	25 °C	10 – 15 min	20 - 26 min	284 – 320 °F



الشركة السعودية للراتجات الصناعية المحدودة
Saudi Industrial Resins Limited

س.ت 4030011854 - رقم العضوية 3275 جدة - رأس المال 50.000.000 مليون ريال (مدفوع بالكامل)
CR 4030011854 CC 3275 Jeddah Capital SR 50 000 000 Fully Paid

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TYPICAL PHYSICAL PROPERTIES OF CURED CASTINGS² AT 77 °F (25 °C)

TEST	VALUE	TEST METHOD
Baracol Hardness	45	ASTM D-2583
Tensile Strength, MPa	61	DIN 53455
Tensile Modulus, MPa	3400	DIN 53455
Elongation at break, %	3.5	DIN 53455
Flexural Strength, MPa	115	DIN 53452
Flexural Modulus, MPa	3600	DIN 53452
Glass Transition Temperature, °C	126	DIN 53455
Heat Deflection Temperature, °C	100	ISO 75 Method A

STANDARD PACKAGE: 30- Ton tank truck, 220 Kgs Standard Steel Drums

DOT LABEL REQUIRED: Flammable Liquid

HANDLING: AROPOL DT3S3 resin contains ingredients, which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

Saudi Industrial Resins Ltd., maintains Material Safety Data Sheets on all of its products. Material Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers.

Our MSDS should be read and understood by all of your supervisory personnel and employees before using SIR's products in your facilities.



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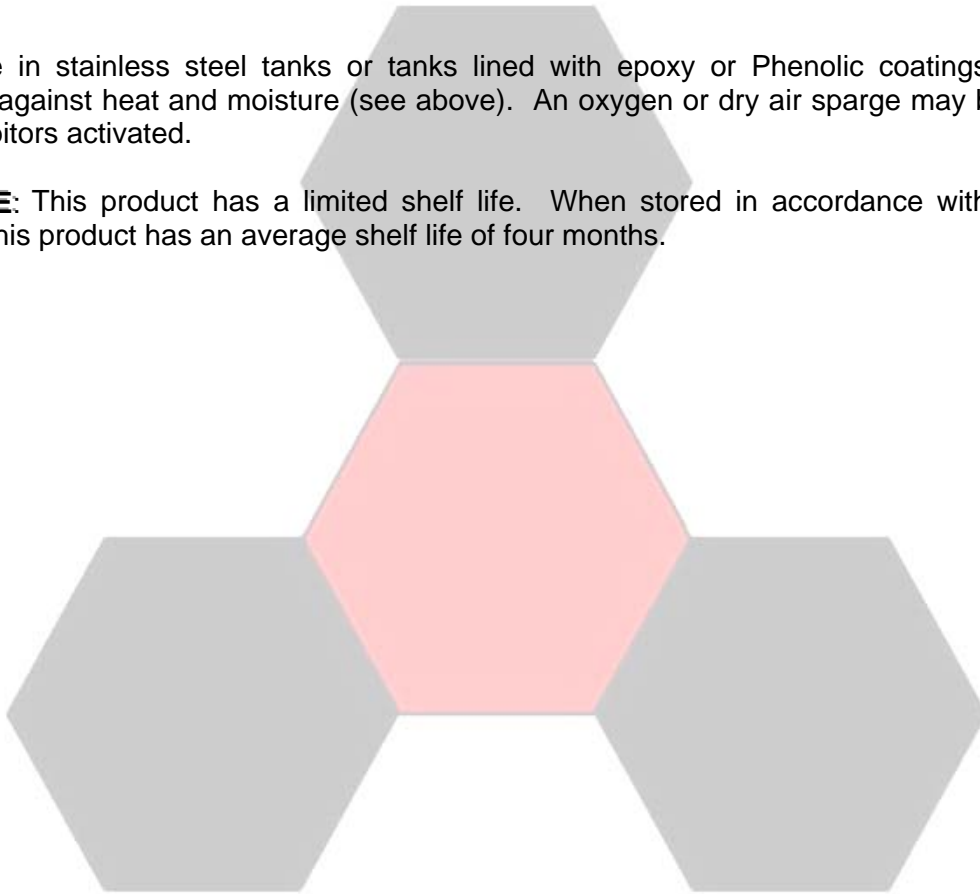
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RECOMMENDED STORAGE:

Drums:- Store at temperatures below 26°C. Storage life decreases with increasing storage temperature. Avoid exposure to heat sources such as direct sunlight or steam pipes. Keep containers sealed to prevent moisture pickup and monomer loss. Rotate stock.

Bulk:- Store in stainless steel tanks or tanks lined with epoxy or Phenolic coatings. Observe precautions against heat and moisture (see above). An oxygen or dry air sparge may be desirable to keep inhibitors activated.

SHELF LIFE: This product has a limited shelf life. When stored in accordance with the above conditions, this product has an average shelf life of four months.



Notice: S.I.R. makes no warranty or representation as to the suitability of the product as specified herein for any particular application. The determination of the suitability of the above specification for any particular use is solely the responsibility of the user.

All precautionary labels and notices should be ready and understood by all supervisory personnel and employees before using. Consult S.I.R. and OSHA regulations for additional safety and health information. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product. Special attention should be given to consumer applications. Freedom to use any patent owned by S.I.R. or others is not to be inferred from any statement contained herein.