

Technical Data Sheet

Resin HSC 7560 / Hardener HSC 8232 (Casting & Potting Systems)

Product Description

HSC 7560 is a low viscosity modified epoxy resin to serve electrical potting & casting applications.

Hardener HSC 8232 is low viscosity polyamidoamine.

Features

- The low mix viscosity of system permits good filler loading and exhibits superior mechanical, electrical and thermal properties.

Application

- Serve electrical potting & casting applications.
- Potting and encapsulation of low voltage electrical and electronic components like CDI, Flashers, ignition coils, charging coils, igniters, capacitors, rectifiers, etc.

Product Specifications

Resin HSC 7560

Properties	Units	Reference standard	Value
Appearance	Visual	HTP-1	Clear liquid
Colour	Gardener	ASTM D1544	Max 1
EEW	gm/eq	ASTM D1652-97	230 - 240
Viscosity @ 25°C	mPas	ASTM D2196	1300 - 1800

Hardener HSC 8232

Properties	Units	Reference standard	Value
Appearance	Visual	HTP-1	Clear Liquid
Colour	Gardener	ASTM D1544	Max 12
EEW	gm/eq	ASTM D1652-97	NA
Viscosity @ 25°C	mPas	ASTM D2196	300 - 800
AHEW	g/eq	NA	95

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Product Performance Data

Mix Properties	Units	Reference standard	Typical Value
Gel time, mix viscosity & curing schedule			
Mixing Ratio	Pbw	NA	100:50
Mix Viscosity @ 25°C	mPas	ASTM D2196	1000 - 2000
Pot life 100g @ 25°C	Min.	ASTM D2471	150
Cure Schedule	NA	NA	24h RT or 6h RT+4h 60°C
Electrical Properties			
Electric Strength	kV/mm	IEC 60243-1	Min 18
Volume Resistivity	Ω cm	IEC 60093	10 ¹⁴
HTP: HSCL Testing Procedure NA: Not Applicable			

Processing and Storage

Packaging	HSC 7560 is available in 230 kg, 110 kg HDPE drums and HSC 8232 is available in 110 kg and 30 kg, 5 kg HDPE carboys.
Mixing	Prolonged storage of Part A along with fillers causes precipitation. Hence it is advisable to mix fillers before preparation. Materials to be thoroughly mixed prior usage including bottom of the container. Uneven mixing will affect the final cured properties.
Curing	Once Part A and Part B is mixed, colour change occurs after a set period of time. This is a normal phenomenon and does not affect the cured product properties. Part A and B should be mixed gently otherwise bubble formation will occur. Low temperature leads to long curing schedule and hence heat curing is advisable.

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Storage Conditions

Part A & B should be stored away from light & heat. Partly emptied containers should be tightly closed immediately after use to avoid exposure to light. For information on waste disposal and hazardous products of decomposition in the event of a fire, refer to the Material Safety Data Sheets (MSDS) for these particular products. The shelf life is 24 months for HSC 7560 and 12 months for HSC 8232.

Disclaimer

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Registered Office:

Hindusthan Speciality Chemicals Limited
(A Subsidiary of DCM Shriram Ltd.)
2nd Floor (West Wing), World Mark 1,
Aerocity, New Delhi 110037, INDIA
Tel: +91 9117020202
E-mail: saleshscl@dcmsriram.com

Factory:

Hindusthan Speciality Chemicals Limited
(A Subsidiary of DCM Shriram Ltd.)
Plot No.:830, GIDC, Jhagadia Industrial Estate,
Jhagadia, Bharuch District,
Gujarat - 393110, INDIA
Website: www.hindusthanspeciality.com