

HSC 5541 (Accelerator)

Product Description HSC 5541 is latent accelerator based on imidazole for Epoxy Casting and Impregnating Systems, cured with carboxylic acid anhydride hardeners. The glass transition temperature (T_g) will be higher by a few degrees when the traditional tertiary amine accelerators are replaced by HSC 5541 at the same phr (parts per hundred resin) without compromising any other mechanical or electrical property of the casting.

Features

- Decrease the cure time and drying properties
- As an initiator for epoxy-anhydride system

Applications

- For use in our system HSC 7550/ HSC 8570 for enhancement in gel time and T_g.

Product Specifications

Properties	Units	Reference Standard	Value
Appearance	Visual	HTP-1	Slight yellow Liquid
Color	Gardener	ASTM D 1544	Max 200
Viscosity @ 25°C	mPas	ASTM D 2196	Max 5
Typical Usage (by resin parts)	%	NA	1-2
Formulation Guidelines			
HSC 7550	Pbw	NA	100
HSC 8570			100
HSC 5541			1
Gel Time @ 120°C	Min.	HTP-19	9-12
T _g (80C/6h+130C/6h)	°C	DSC	110-115

HTP: HSCL Testing Procedure

NA: Not Applicable

Processing and Storage

Packing HSC 5541 available in bulk packing of drums and container in packing size of 1 kg, 5 kg and 30 kg.

Safety & Handling Following instructions needs to be followed strictly.
 Keep working conditions clean. Allow fresh air in, if possible, provide ventilator.
 Avoid contact with human body directly, wear gloves and other personal protective equipment especially dust masks or respirators.

Wash hands carefully with soap. If possible, wash with acetone and alcohol first, then soap and water.

In case of eye contact, wash with running water for 15 minutes and then seek medical treatment.

Refer MSDS for better instruction on Safety & Handling.

**Storage
Conditions**

HSC 5541 should be stored at room temperature free of moisture, in the original containers kept tightly closed at temperatures between 5-35°C. Container once opened should be tightly closed to avoid contamination by foreign materials. The shelf life is 12 months.

Disclaimer

All recommendations for use of our products, whether given by us in writing, verbally or to be implied from results of tests carried out by us are based on the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility. Therefore, the Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.

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