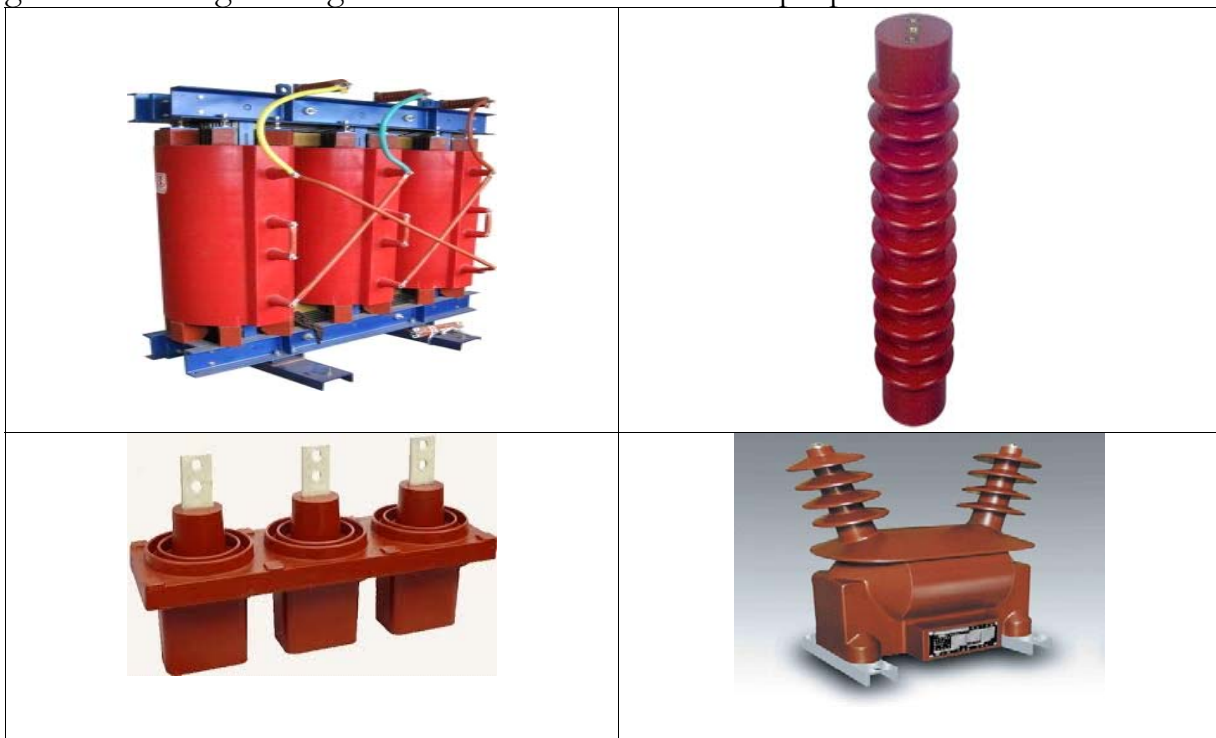


Casting Systems

HSC 7550 is modified epoxy resin to serve electrical casting application. Hardener HSC 8570 is modified liquid anhydride. HSC 6510 is low viscosity polyglcol flexibilizer. HSC 5510 is tertiary amine accelerator. The liquid hot curing system goes for castings with good electrical and mechanical properties.



Resin HSC 7550			Hardener HSC 8570		
S. No.	Properties	Value	S. No.	Properties	Value
1	Appearance	Clear Liquid	1	Appearance	Clear Liquid
2	Viscosity @ 25°C, cPs	9000-13000	2	Viscosity @ 25°C, cPs	150-200
3	EEW	180-190			
Flexibilizer HSC 6510			Accelerator HSC 5510		
S. No.	Properties	Value	S. No.	Properties	Value
1	Appearance	Clear	1	Appearance	Clear Liquid

		Liquid		2	Viscosity @ 25°C, cPs	1000-2000																					
2	Viscosity @ 25°C, cPs	50-100																									
Applications				Advantages																							
<ul style="list-style-type: none"> Indoor electrical insulators for medium/high voltage like post insulators and bushings Instrument transformers Dry type distribution transformers Switch gears 				<ul style="list-style-type: none"> Good mechanical properties Good electrical properties Superior thermal endurance Resistance to atmosphere conditions 																							
Curing Schedule				Properties Contd.																							
6-8h 80°C + 10-12h 130°C				<table border="1"> <thead> <tr> <th>S. No.</th> <th>Properties</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>HDT, °C</td> <td>~ 80</td> </tr> <tr> <td>8</td> <td>Tg, °C</td> <td>~ 90</td> </tr> <tr> <td>9</td> <td>Volume Resistivity</td> <td>10¹⁵</td> </tr> <tr> <td>10</td> <td>CTI, Volt</td> <td>Min 600</td> </tr> <tr> <td>11</td> <td>Electrical Strength, kV/mm</td> <td>Min. 18</td> </tr> <tr> <td>12</td> <td>Arc Resistance, sec</td> <td>~ 190</td> </tr> </tbody> </table>			S. No.	Properties	Value	7	HDT, °C	~ 80	8	Tg, °C	~ 90	9	Volume Resistivity	10 ¹⁵	10	CTI, Volt	Min 600	11	Electrical Strength, kV/mm	Min. 18	12	Arc Resistance, sec	~ 190
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HSC 7550/HSC 8570/HSC 6510/ HSC 5510/ Silica- 100/100/10/1/400																											
<table border="1"> <thead> <tr> <th>S. No.</th> <th>Properties</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Viscosity @ 80°C, cPs</td> <td>1500-2000</td> </tr> <tr> <td>2</td> <td>Gel time @ 120°C, min</td> <td>~ 20</td> </tr> <tr> <td>3</td> <td>Tensile Strength, MPa</td> <td>~ 70</td> </tr> <tr> <td>4</td> <td>Flexural Strength, MPa</td> <td>~125</td> </tr> <tr> <td>5</td> <td>Compressive Strength, MPa</td> <td>~ 135</td> </tr> <tr> <td>6</td> <td>Impact Strength, MPa</td> <td>~ 10</td> </tr> </tbody> </table>				S. No.	Properties	Value	1	Viscosity @ 80°C, cPs	1500-2000	2	Gel time @ 120°C, min	~ 20	3	Tensile Strength, MPa	~ 70	4	Flexural Strength, MPa	~125	5	Compressive Strength, MPa	~ 135	6	Impact Strength, MPa	~ 10			
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For more information, please contact

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