

ALPA-KAT 1 Platinum catalyst in vinyl siloxane

| Description | Property | Test Method | Value |
|--|---|------------------|--|
| <p>The ALPA KAT series promote a quick, low temperature curing of the hydrosilylation reaction. The catalysts are available as solution in vinyl terminated polydimethylsiloxane (SFA 42 series) in different concentrations.</p> <p>They form silicone elastomers through an addition curing cross-linking reaction between Si-vinyl and Si-H groups.</p> <p>Key Features</p> <ul style="list-style-type: none"> • Containing Karstedts's catalyst • 1% Platinum • Excellent reactivity • No shrinkage during crosslinking <p>Key Applications</p> <ul style="list-style-type: none"> • Catalyst for addition curing formulations <p>Use and Cure Information</p> <p>It is advised to determine the ratio of hydride to vinyl functional siloxane and the desired reaction component beforehand. Especially when using filled system, a hydride excess is needed. All materials of the HANSA SFA 4 series are stable at ambient temperature under the exclusion of water.</p> <p>All components should be well mixed to ensure the material is uniform. For best results, we recommend degassing afterwards.</p> <p>Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing tools are clean and constructed in materials which do not interfere with the curing mechanism. The cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding clays, sulphur vulcanised rubbers, condensation cure silicone rubbers, onion and garlic.</p> <p>These substances may impair or even completely prevent the curing behavior of addition crosslinking silicones typically indicated by tacky surfaces. Therefore, it is important to check the compatibility in preliminary tests if unknown substrates are used.</p> <p>Health & Safety</p> <p>Please observe our safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.</p> <p>CHT Catalysts are available in a variety packaging. Please contact our customer service department for more information.</p> | <p>Product</p> <p>Color</p> <p>Non-Volatile Content (%)</p> <p>Shelf Life</p> <p>Ultralow cyclic content</p> <p>Vinyl content mmol/g</p> | | <p>Yellowish</p> <p>> 99</p> <p>12 mths</p> <p>Yes</p> <p>0.105 – 0.143 mmol/g</p> |
| | | <p>Viscosity</p> | <p>Brookfield HTBD, 23</p> |
| | <p>Uncured Product</p> <p>Cure Type</p> | | <p>Additon cure</p> |
| | <p>Cured Product</p> <p>Density</p> | <p>DIN 53479</p> | <p>1 g/cm3</p> |
| | <p>Solubility</p> <p>Solubility - Water</p> | | <p>insoluble</p> |
| <p>Revision Date</p> <p>Revision No</p> <p>Download Date</p> | <p>29 Nov 2023</p> <p>4</p> <p>03 Jul 2024</p> | | |