STRUKTOL® WS 180

Processing Additives based on Organosilicones

Composition

STRUKTOL WS 180:
Condensation product of fatty acid derivatives and silicons.

STRUKTOL WS 280:
Condensation product of special fatty acid derivatives and silicons (75%) on inorganic carrier (25%).

<table>
<thead>
<tr>
<th>Properties</th>
<th>STRUKTOL WS 180</th>
<th>STRUKTOL WS 280*</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>light brown pastilles</td>
<td>crumbly powder</td>
</tr>
<tr>
<td>Density [kg/m³]</td>
<td>1000</td>
<td>1200</td>
</tr>
<tr>
<td>Bulk density [kg/m³]</td>
<td>550</td>
<td>470</td>
</tr>
<tr>
<td>Melting range [°C]</td>
<td>90</td>
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</tbody>
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Physiological behaviour refer to safety data sheet
Storage stability at least 18 months under normal storage conditions
Packing 20 kg bags

* STRUKTOL WS 280 is also available with 100% active ingredient as STRUKTOL WS 280 Paste.

The data given are typical values which are not intended for use in preparing specifications. For test methods refer to the corresponding supplement.
Recommendations for Application

STRUKTOL WS 180 and STRUKTOL WS 280 are new concepts in processing additives based on organosilicones which in many applications show superior performance compared to conventional products. These new organosilicones are highly compatible with rubber compounds. This enables utilization of the highly efficient lubrication effects of silicone without exudation or bloom. Limited compatibility can occasionally be observed with compounds having a low filler content and/or a very high cross-link density.

In a unique way they improve flow properties and release behaviour in the processing of rubber as well as mould release of vulcanizates.

STRUKTOL WS 180 leads to best results in the processing of both special (e.g. ACM, ECO) and standard elastomers showing most advantageous effects, lowering viscosity, improving mill release and helping to solve mould release problems. It has an extremely low peroxide demand and has practically no effect on physical properties.

STRUKTOL WS 280 has extremely low volatility at high temperatures and is particularly suitable for FPM compounds. It gives excellent release properties on mixing machinery, exceptionally good flow properties and reduces mould fouling. STRUKTOL WS 280 gives not only better extrusion properties, but is excellent also for injection moulding.

Dosage

0.5 - 3 phr  STRUKTOL WS 180
0.5 - 2 phr  STRUKTOL WS 280.

It should be noted that, compared to usual processing additives, the same results can be achieved with lower dosages.

The suggestions for application and usage of our products as well as possible proposed formulations are meant to advise only to the best of our knowledge. This information is without obligation and does not release customers from their own testings to ensure suitability for intended processes and use. Liability is only accepted in case of intention or gross negligence. Liability for any defects caused by minor negligence are not accepted. Each producer is responsible and liable to observe legislation and patent rights of third parties.

This new leaflet replaces all previously printed documentation.
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