



Product Description

| | |
|---------------------------|---------------------|
| Chemical characterization | Chromium iron oxide |
| Color Index | Pigment Brown 29 |
| Appearance | Brown powder |
| C.I. No. | 77500 |
| CAS No. | 12737-27-8 |

Technical Data

| | Unit | Value | Test Method |
|--------------------------|----------------------|-----------|--------------------|
| Water-soluble salts | [%] | <0.3 | acc. to ISO 787-3 |
| Volatile matter (105 °C) | [%] | <0.1 | |
| pH value | | 7.0 - 9.0 | acc. to ISO 787-9 |
| Density | [g/cm ³] | typ. 4.8 | acc. to ISO 787-10 |
| Bulk density | [g/cm ³] | typ. 0.4 | |
| Tamped density | [g/cm ³] | typ. 0.7 | acc. to ISO 787-11 |
| Oil absorption | [g/100g] | typ. 23 | acc. to ISO 787-5 |
| Sieve residue 45 µm | [%] | <0.1 | acc. to ISO 787-7 |
| Median D50 | [µm] | typ. 0.6 | acc. to ISO 13320 |

Fastness Properties

| Resistance to Chemicals | | |
|-------------------------|-------|-----------------------------------|
| | Value | Test Method |
| Acid | 5 | rating acc. to DIN EN ISO 105-A03 |
| Alkali | 5 | rating acc. to DIN EN ISO 105-A03 |
| Water | 5 | rating acc. to DIN EN ISO 105-A03 |
| Butanol | 5 | rating acc. to DIN EN ISO 105-A03 |
| Butylacetate | 5 | rating acc. to DIN EN ISO 105-A03 |
| Xylene | 5 | rating acc. to DIN EN ISO 105-A03 |
| MEK | 5 | rating acc. to DIN EN ISO 105-A03 |
| White spirits | 5 | rating acc. to DIN EN ISO 105-A03 |

Acid/alkali resistance: Pigment was dipped into hydrochloric acid (10%) or soda solution (10%). Rating with gray scale: 1=poor, 5=excellent.

Solvent resistance: Pigment was dipped into solvent. Rating with gray scale: 1=poor, 5=excellent.

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Disclaimer - The information given in this data sheet is based on the present state of our knowledge & is intended as a general description of our products & their possible applications. Neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Because of the multitude of formulations, production & application conditions, all the above mentioned data have to be adjusted to the circumstances of the processor. As customer use lies beyond our knowledge and control, we cannot accept any liability relating to the use of our products in any particular application. In addition to that, the legal rights of third parties must always be considered. No liabilities, including those for patent rights, can be derived from this fact for individual cases. It cannot be ruled out that this product contains particles < 0.1 µm. Any user of this product is responsible for determining the suitability of Sudarshan's products for its particular application & to ensure that any proprietary rights & existing laws & legislation are observed.

| | Value | Test Method |
|----------------------------------|-------|---|
| Coatings: | - | |
| Heat resistance [°C] | 600 | acc. to ISO 787-21 |
| Light fastness [full shade] | 8 | acc. to DIN EN ISO 16474-2/DIN EN ISO 105-B02 |
| Light fastness [1/9 SD] | 8 | acc. to DIN EN ISO 16474-2/DIN EN ISO 105-B02 |
| Weather fastness [full shade] | 5 | acc. to DIN EN ISO 16474-2/DIN EN ISO 20105-A02 |
| Weather fastness [1/9 SD] | 5 | acc. to DIN EN ISO 16474-2/DIN EN ISO 20105-A02 |
| Plastics: | - | |
| Heat resistance [full shade][°C] | >320 | acc. to DIN EN 12877-2 |
| Heat resistance [1:3][°C] | >320 | acc. to DIN EN 12877-2 |
| Light fastness [full shade] | 8 | acc. to DIN EN ISO 4892-2/DIN EN ISO 105-B02 |
| Light fastness [1/3 SD] | 8 | acc. to DIN EN ISO 4892-2/DIN EN ISO 105-B02 |

Heat resistance: For coatings tested in heat resistant coating up to 600 °C for 30 minutes, for plastics tested in HDPE system up to 320 °C.

Light Fastness: For coatings tested in water based automotive system, for plastics tested in LDPE system. Rating with 8-step wool scale: 1=poor, 8=excellent.

Weather fastness: Tested in water based automotive system. Rating with gray scale after 2000 h accelerated weathering: 1=poor, 5=excellent.

Packaging and Handling

| | |
|-----------|---|
| Packaging | 25 kg paper bags |
| Packaging | Different types of packaging are available on request |

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