44200 Chrome Oxide, opaque

Product Information

Type:	Green pigment
Delivery form:	Powder
Chemical class:	Chrome oxide Cr_2O_3
Color Index:	Pigment green 17 (77288)
CAS-No.:	1309-38-9

Specification

Color values and tinting strength

	min.	max.	Test method
Binder: test paste based on a non drying alkyd resin			Similar to wet system as per DIN 55 983 (1983)
Full shade			No. 001 of 1995-04-28
ΔL^*	-0.5	0.5	
Δa^*	-0.6	0.6	
Δb^*	-0.6	0.6	
ΔE_{ab}^*		1.0	

Reduced shade with titanium dioxide (1:5)
Color values after matching of the tinting strength parameter Y, d.h. $\Delta L^*=0$

Δa^*	-0.6	0.6	
Δb^*	-0.6	0.6	
ΔE_{ab}^*		1.0	
Relative tinting strength (%)	95	105	No. 001 of 1995-04-28

Technical Data

Water-soluble content (%)		0.3	DIN EN ISO 787 part 3 (1995)
Sieve residue (0.045-mm-sieve) (%)		0.02	DIN 53 195 (1990)
pH-value	5.0	7.0	DIN EN ISO 787 part 9 (1995)
Loss on ignition at 1000°C, 0.25h (%)		0.4	DIN EN ISO 4621 (1988)
Tamped density (g/ml)	1.0	1.3	DIN EN ISO 787 part 11 (1995)

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Informative technical data (standard values)

	approx.	Test method
Content Cr_2O_3 (%)	98.5 – 99.5	X-Ray fluorescence
Water soluble Cr-VI (ppm)	< 5	Method 103
Content SiO_2 + Al_2O_3 (%)	approx. 0.1	DIN 55 913 sheet 2 (1972)
Particle size	spherical	Electron microscope
Predominant particle size (µm)	approx. 0.3	Electron microscope
Oil absorption (g/100 g)	approx. 11	DIN EN ISO 787 part 5 (1995)
Heat stability (20°C)	approx. 1000	DIN EN 12 877-2 (2000)
Density (g/ml)	5.2	DIN EN ISO 787 part 10 (1995)

Transport and storage

Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature. Special conditions for opened packaging: Close bags after use to prevent the absorption of moisture and contamination.

Safety

The product is not classified as dangerous under the relevant EC Directives and corresponding national regulations valid in the individual EU member states. It is not dangerous according to transport regulations. In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labeling and transport of dangerous substances must be ensured.

The information contained in the safety data sheet must be observed. This contains information on handling, product safety and ecology.

Chrome Oxide meets the requirements of the European Toys Regulation DIN EN 71, part 3.

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