

Technical Data – Inorganic Sunferrox™ Pigments

Sunferrox™ Pigments	Grade	Fe ₂ O ₃	Water Content	Water Soluble salts	Loss on heating ⁽¹⁾ 1000°C/0.5h	Water absorption	Sieve residue 0.045mm mesh	pH Value	Tinting Strength vs Standard	Color difference vs Standard ⁽²⁾	Tamped apparent density	Density	Predominant Particle Size ⁽³⁾	Particle Shape
		DIN-55913	ISO 787 Part 2	ISO 787 Part 8	DIN-55913	ISO 787 Part 5	ISO 787 Part 7	ISO 787 Part 9	DIN-55913	Measured according DIN-6174 & 55986	ISO 787 Part 11	ISO 787 Part 10		
		Min. %	Max %	Max %	Max %	Approx. g/100g	Max %	Range	%	ΔE max.	approx. g/cm3	approx. g/cm3	µm ⁽³⁾	
Sunferrox™ Red														
C.I. Pigment	4110	95	1.0	0.5	4.0	22	0.05	5-7	95-105	1.0	1.0	5.0	0.1	spherical
	4100	95	1.0	0.5	4.0	22	0.05	5-7	95-105	1.0	1.0	5.0	0.1	
Red 101	4130	95	1.0	0.5	4.0	20	0.05	5-7	95-105	1.0	1.0	5.0	0.2	
C.I.77491	4140	95	1.0	0.5	4.0	20	0.05	5-7	95-105	1.0	1.0	5.0	0.3	
	4190	95	1.0	0.5	4.0	20	0.05	5-7	95-105	1.0	1.0	5.1	0.7	
Sunferrox™ Yellow														
C.I.Pigment	4910	86	1.0	0.5	15.0	28	0.05	4-7	95-105	1.0	0.4	4.0	0.1x0.8	acicular
Yellow 42														
C.I.77491	4920	86	1.0	0.5	15.0	28	0.05	4-7	95-105	1.0	0.4	4.0	0.1x0.8	acicular
Combination of C.I.77491/92	4960	88	1.0	0.5	13.0	25	0.05	5-7	95-105	1.0	0.5	4.3	0.1x0.8	primarily acicular
Sunferrox™ Brown														
Combination of C.I. 77491/92/99	4686	95	1.0	0.5	4	18	0.05	5-8	95-105	1.0	1.0	4.5	0.1x0.8	irregular
Sunferrox™ Black														
Black 11	4330	95	1.0	0.5	N.A.	18	0.05	5-8	95-105	1.0	1.0	4.5	0.2	spherical
C.I.77499	4340	95	1.0	0.5	N.A.	30	0.05	5-8	95-105	1.0	1.0	4.5	0.2	

Note:

- (1) Green and Blue pigments are complex in nature.
- (2) Detailed procedures are available on request.
- (3) Values determined from electron micrographs.
- (4) All technical data determined on basis of the ISO or DIN standards mentioned

The analysis values merely represent an indication of the fundamental composition and properties; in the individual types, there are also traces of other chemical compounds, these traces are found in fractions of a percent and are subject to slight fluctuation.

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