



Technical Data Sheet

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Commercial Name: Trans-Oxide Red AC1005
Manufacturer: Oxerra

General Description

Chemical Formula: Fe_2O_3
Type: Red Iron Oxide Pigment
Colour Index: Pigment Red 101 (77491)
CAS No.: 1309-37-1
EINECS No.: 215-168-2
Form: Powder

Technical Data - Specified Values

	<u>Min.</u>	<u>Max.</u>	<u>Test Method</u>
Shade	Slightly light	Slightly deep	Visual
Transparency	Slightly inferior	Slightly superior	Visual
Colour Tolerance against current standard			
ΔE^* Reduced Shade		1.0	LO-80
Relative Tinting Strenght (%)	95	105	LO-80
pH	7.0	9.5	LO-06
Conductivity ($\mu\text{S}/\text{cm}$)		500	LO-05
Loss on Drying (%)	4.0	6.0	LOG-25



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Technical Data - Typical Values

Fe ₂ O ₃ Content (%)	92+	LO-16
Particle Shape	Acicular	T.E.M.
Moisture content (%)	5.6	LOG-25
Conductivity (μS/cm)	175	LO-05
pH	8.2	LO-06
Specific Gravity	3.94	ISO DIN 787/10
Tamped Apparent Density (g/cm ³)	1.06	LO-10
Specific Surface Area BET (m ² /g)	115	LO-42
Oil Absorption (g/100g)	58	LO-07
Sieve Residue (% Passing 80 μm mesh)	64	LO-57

Standard Packaging

25 Kg bags

Notes:

Shelf Life: Trans-oxide products have a 5 years minimum shelf life when stored in dry conditions, out of direct sunlight and under ambient temperatures

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