



Technical Data Sheet

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Commercial Name: Trans-Oxide Yellow AC0500
Manufacturer: Oxerra

General Description

Chemical Formula: $\text{FeO} \cdot \text{OH}$, $(\text{Fe}_2\text{O}_3 \cdot \text{H}_2\text{O})$
Type: Yellow Iron Oxide Pigment
Colour Index: Pigment Yellow 42 (77492)
CAS No.: 51274-00-1
EINECS No.: 257-098-5
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			
ΔL^* Reduced Shade	-0.5	0.5	LO-80
ΔC^* Reduced Shade	-0.7	0.7	LO-80
ΔH^* Reduced Shade	-0.5	0.5	LO-80
ΔE^* Reduced Shade		1.0	LO-80
Relative Tinting Strenght (%)	97	103	LO-80
pH	7.0	9.5	LO-06
Conductivity ($\mu\text{S}/\text{cm}$)		500	LO-05
Loss on Drying (%)	3.0	5.5	LOG-25



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Technical Data - Typical Values

Fe ₂ O ₃ Content (%)	82+	LO-16
Particle Shape	Acicular	T.E.M.
Moisture content (%)	4.0	LOG-25
Conductivity (μS/cm)	124	LO-05
pH	8	LO-06
Specific Gravity	3.76	ISO DIN 787/10
Tamped Apparent Density (g/cm ³)	1.11	LO-10
Specific Surface Area BET (m ² /g)	105	LO-42
Oil Absorption (g/100g)	44	LO-07
Sieve Residue (% Passing 80 μm mesh)	67	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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