

**QINGDAO SANHUAN COLORCHEM CO., LTD.**

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**TECHNICAL DATA SHEET**

Trade name	Iron oxide yellow			
Type	311			
Color	Yellow			
Chemical name	Iron hydroxide oxide ( $\alpha$ -FeOOH)			
Delivery form	Powder			
Colour index	Pigment yellow 42 (77492)			
CAS No./EC No.	20344-49-4/243-746-4			
Specifications	Contents ( $\alpha$ -FeOOH)	%	$\geq 86$	ISO1248
	Oil absorption	ml/100g	25~35	ISO787-5
	Res. on 325 mesh	%	$\leq 0.3$	ISO787-7
	Water soluble salts	%	$\leq 0.3$	ISO787-3
	Moisture	%	$\leq 1.0$	ISO787-2
	pH value		3~7	ISO787-9
	Ignition loss (1,000°C, ½ h)	%	$\leq 14$	DIN55913
	Bulk density	g/cm <sup>3</sup>	0.4~0.6	ISO787-11
	Specific gravity	g/cm <sup>3</sup>	4.1	ISO787-10
	Particle size BET	$\mu\text{m}$	0.1x0.4	Electron Micrographs
	Dispersibility (Hegman)	$\mu\text{m}$	20/25/30	ISO787-20
	Tinting Strength (Compared with Standard)	%	95~105	ISO787-24
	Color Difference $\Delta E$ (Compared with Standard)		$\leq 1.0$	ISO787-1
Sales packing	In 25kg paper bag/600kg bulk bag then palletized			
Transport & Storage	Protect against weathering / Store in a dry place			
Safety	The product is not classified as hazardous under EC 1907/2006 & EC 1272/2008			