



Technical Data Sheet / Specification

BROWN 686 for Concrete



GREY CEMENT

OFF-WHITE CEMENT

Technical Data Sheet /Specification- Iron Oxide Pigment			
Product name:	Brown 686		
General description			
Chemical formula:	Synthetic iron oxide Fe ₂ O ₃ /Fe ₃ O ₄		
Type:	Brown iron oxide pigment		
Colour index:	Pigment red 101 (77491)		
	Pigment black 11 (77499)		
CAS No.:	1309-37-1		
	12227-89-3		
Form:	Powder		
Hue:	Dark brown		
Colour difference in paints :			
Mass tone	ΔE Lab	max 1.0	Test method: ISO787/1
Tint-tone	ΔE Lab	max 1.0	Test method: ISO787/16
Relative tinting strength (%)	min 95	max 105	Test method: ISO787/16
Colour difference in cement :			
ΔE _{cmc}	max 1.5		3%Concentration in cement
Relative tinting strength (%)	min 95	max 105	3%Concentration in cement
Technical data			
Fe ₂ O ₃ / Fe ₃ O ₄ content (%)	min 60	max 90	Test method: ISO1248/8
Moisture (%)	max 1.0		Test method: ISO787/2
Water soluble salts (%)	max 0.5		Test method: ISO787/3
Sieve residue on 45μm mesh (%)	max 0.5		Test method: ISO787/7

pHvalue	min 4.0	max 8.0	Test method: ISO787/9
Oil absorption	min 20	max 30	Test method: ISO787/5
Density (g/cm ³)	approx. 5.0		Test method: ISO787/10
Apparent density (g/cm ³)	approx. 1.0		Test method: ISO787/11
Particle shade	irregular		
Average particle size (μm)	approx. 0.50		
package	25 kg/bag with pallet		

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