

## Technical Data Sheet

### Marrom Ferrogen® 2417

#### Description

<b>Type</b>	Brown pigment
<b>Delivery form</b>	Powder
<b>Chemical class</b>	Synthetic iron oxide
<b>Color Index</b>	Pigment black 11 (77499) Pigment red 101 (77491) Pigment yellow 42 (77492)
<b>CAS-Nr.</b>	1317-61-9 1309-37-1 20344-49-4

#### Colorimetric Data

<b>Color values and tinting strength</b>			
Reference	Marrom Ferrogen 2417		10430027
Binder	Test paste based on a non drying alkyd resin		Test Method based on DIN 55 983 (1983)
	<b>min.</b>	<b>max.</b>	<b>Test method</b>
<b>Full Shade</b>			Based on DIN 6174
Delta-L*	-0,8	0,8	
Delta-E <sub>ab</sub> *		1,4	
<b>Reduction with titanium dioxide (1 : 5)</b>			Based on DIN6174 & 55986
Color values after matching of the tinting strength parameter: Y, d. h.			
Delta-a*	-0,8	0,8	
Delta-b*	-0,8	0,8	
Delta-E <sub>ab</sub> *		1,4	
<b>Relative tinting strength [%]</b>	95	105	Based on DIN 55 913

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#### Specification

Technical Data	min.	max.	Test method
Sieve residue 325 Mesh [%]		1,0	Based on ASTM D-185
pH value	6,0	8,0	Based on ASTM D-1208

#### Informative technical data

	min.	max.	Test method
Fe <sub>2</sub> O <sub>3</sub> Content [%]	84	90	Based on ASTM D-50
Soluble Salts [%]		0,5	Based on ASTM D-1208
Oil absorption [g/100g]	20	30	Based on ASTM D-281
Particle shape		Irregular	
Tamped density [g/cm <sup>3</sup> ]	0,7	1,0	Based on ASTM D-787-11
Density [g/cm <sup>3</sup> ]	4,2	4,6	Based on ASTM D-153-75
Moisture content after production [%]		0,5	Based on ASTM D-280

#### Packaging

20 kg – paper bag

#### Transport and Storage

Protect against weathering.

Store in a dry place and avoid extreme temperature fluctuations.

Close bag after use to prevent moisture absorption and contamination.

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## Safety

Marrom Ferrogen 2417 is not classified as dangerous substance according to transport regulations (not classified).

The sample handling does not need special procedure.

The safety data sheet should be observed. It contains information on handling, product safety and ecology.

## Use

Marrom Ferrogen 2417 is broadly used in several applications, however its use is not recommended in food and drugs.

## Site address

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