

## Product Information

### Bayferrox® 520

#### Description

Type	Red pigment
Delivery form	Powder
Chemical class	Synthetic iron oxide $\alpha$ - $\text{Fe}_2\text{O}_3$
Colour Index	Pigment red 101 (77491)
CAS-No.	1309-37-1
REACH registration no.	01-2119457614-35-0000

#### Specified Color Data

Colour values and tinting strength				
Standard	Bayferrox 520			
Year	07/2017			
Binder:	Full shade		Reduction <sup>45</sup>	Test method
Test paste based on a non drying alkyd resin			with titanium dioxide (1:5)	No. 001 <sup>41</sup>
	min	max	min	max
$\Delta L^*$	-0.5	0.5		
$\Delta a^*$	-0.8	0.8	-0.8	0.8
$\Delta b^*$	-0.8	0.8	-0.8	0.8
$\Delta E^*_{ab}$		1.0		1.0
Relative tinting strength [%]			95	105

#### Specified Technical Data

Technical Data	min	max	Test method
Water-soluble content [%]		0.5	similar to DIN EN ISO 787-3:2000
Sieve residue (0.045 mm sieve) [%]		0.05	DIN EN ISO 787-7:2009
pH value	4.5	6.5	DIN EN ISO 787-9:1995

**Informative Technical Data (guide values)**

			<b>Test method</b>
$\alpha$ - Fe <sub>2</sub> O <sub>3</sub> content [%] <sup>53</sup>	>	98.9	Information about the determination of iron oxide <sup>41</sup>
Loss on ignition at 1000 °C, 0.5 h [%]	<	4.0	DIN 55913-2:1972
Moisture content (after production) [%]	<	1.0	DIN EN ISO 787-2:1995
Particle shape		spherical	Electron micrographs
Predominant particle size [µm]	~	0.1	Electron micrographs
Oil absorption [g/100 g]	~	20	DIN EN ISO 787-5:1995
Tamped density [g/ml]	~	1.0	similar to DIN EN ISO 787-11:1995
Density [g/ml]	~	5.0	DIN EN ISO 787-10:1995

<sup>41</sup> Obtainable from LANXESS Deutschland GmbH, Business Unit Inorganic Pigments, mailto: ipg.product-information@lanxess.com

<sup>45</sup> Colour values after matching of the tinting strength parameter Y, i.e.  $\Delta L^*=0$

<sup>53</sup> Minor elements may arise from the raw materials used. However, these are firmly bound to the crystal lattice as ions.

\*These items are provided as general information only. They are approximate values and are not considered part of the product specification.

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Note: The information contained in this publication is current as of August 2017. Please contact LANXESS to determine if this publication has been revised