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MEROX 400 FERRIC OXIDE Fe_2O_3

FIELD OF APPLICATION

Customers are solely responsible for determining the suitability of iron oxide for any purpose.

ORIGIN

Merox 400 is a synthetic iron oxide exhibiting high chemical purity and physical consistency. It is produced from selected iron chloride solutions by thermal decomposition (spray roasting). SSAB EMEA is using clean river water which provides the product a very low content of alkali.

Merox Ferric Oxide consists of alpha-ferric oxide.

HEALTH- AND ENVIRONMENTAL EFFECTS

See safety data sheet.



Chemical composition [weight- %]

Compound	Nominal	Typical
Fe_2O_3	min 99.1	99.3
SiO_2	0.030 - 0.042	0.037
Ca	0.001 - 0.008	0.004
Mg	0.000 - 0.004	0.001
Mn	0.400 - 0.600	0.520
Al	0.030 - 0.040	0.035
Cr	0.040 - 0.060	0.050
Ni	0.020 - 0.029	0.024
Cu	0.002 - 0.015	0.004
Co	0.001 - 0.010	0.007
K	0.001 - 0.003	0.001
Na	0.001 - 0.008	0.002
P	0.008 - 0.012	0.009
S	0.002 - 0.010	0.005
Cl	0.060 - 0.120	0.090

Chemical composition is measured by SSAB's laboratory in Borlänge, Sweden. XRF-analysis report is provided with each delivered batch

Physical parameters

Loss on ignition	[weight- %]	0.1 - 0.4
Moisture	[weight- %]	0.1 - 0.3
Specific surface (BET)	[m^2/g]	3.4 - 4.9
Specific gravity	[g/cm^3]	0.7 - 0.9
Tap density, undensified (DIN ISO 787/11)	[g/cm^3]	0.9 - 1.3
Bulk density, undensified	[g/cm^3]	0.49 - 0.55

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