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# MEROX 600 FERRIC OXIDE $\text{Fe}_2\text{O}_3$

## FIELD OF APPLICATION

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

## ORIGIN

Mercox 600 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.

Mercox Ferric Oxide consists of alpha-ferric oxide.

## HEALTH- AND ENVIRONMENTAL EFFECTS

See safety data sheet.



## Chemical composition [weight- %]

Compound	Nominal	Typical
$\text{Fe}_2\text{O}_3$	min 99.1	99.3
$\text{SiO}_2$	0.042 - 0.152	0.090
Ca	0.001 - 0.010	0.004
Mg	0.000 - 0.010	0.002
Mn	0.450 - 0.750	0.600
Al	0.030 - 0.050	0.040
Cr	0.040 - 0.085	0.052
Ni	0.020 - 0.030	0.025
Cu	0.002 - 0.015	0.004
Co	0.001 - 0.018	0.008
K	0.001 - 0.003	0.001
Na	0.001 - 0.018	0.004
P	0.008 - 0.018	0.009
S	0.002 - 0.025	0.006
Cl	0.060 - 0.200	0.120

*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)	[ $\text{m}^2/\text{g}$ ]	3.4 - 4.9
Specific gravity	[ $\text{g}/\text{cm}^3$ ]	0.7 - 0.9
Tap density, undensified (DIN ISO 787/11)	[ $\text{g}/\text{cm}^3$ ]	0.9 - 1.3
Bulk density, undensified	[ $\text{g}/\text{cm}^3$ ]	0.49 - 0.55

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