

FRM

Deutsche ...

Abt. ...  
...- ...

Firma  
Kunzchemie ...  
Oberhausen-Lötten

59

Bitte lesen: ...

Wir erhalten ...  
sowie eine ...  
Japan ...  
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Wir bitten Sie ...  
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Wir bitten Sie ...  
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Anzahl: 2 Analysen.

Abm. Dr. Lorenz Nach Eingang der ...  
FRM ...

7 11 - 7

Table I.

## Analysis of Iron Oxide

10586

596

Content	Red mass	Sumitomo	Kuban Limonite
$Fe_2O_3$	41,25	40,91	73,81
$Al_2O_3$	8,89	23,70	1,82
$TiO_2$	4,00	0,55	0,24
$MnO$	0,17	0,11	0,11
$P_2O_5$	1,04	2,36	0,17
$SiO_2$	3,23	7,40	6,65
$CaO$	7,27	3,32	tr
$MgO$	0,81	0,68	0,04
$So_3$	0,12	0,96	1,14
$Na_2O$	3,02	3,97	0,05
$CO_2$	3,33	0,43	0
$H_2O$ (moisture 105°C)	16,76	1,43	2,29
$H_2O$ (combined moisture)	9,22	13,26	13,12
$Cu$		0,15	
$F$			
$K_2O$	0,16	0,30	
		99,53	99,45

Abschrift.

Nr. 244a

Table II.

*Analysis of Iron Oxide*

00587

3 - 5 - 1937

Iron oxide spent from  
Sumitomo Chemical In-  
dustrial Works

597

- Ferric Hydroxide	$2 \text{Fe}_2 \text{O}_3 \cdot 3 \text{H}_2 \text{O}$ assumed	47.16
Aluminiumoxide	$\text{Al}_2 \text{O}_3$	15.05
Clay & gang matter		16.44
Sodim alminat	$\text{Na}_2 \text{Al}_2 \text{O}_6$	5.79
Sodim phosphate	$\text{Na}_2 \text{HPO}_4 \cdot ? \text{H}_2 \text{O}$	7.90
Calcium carbonate	$\text{CaCO}_3$	0.99
Calcium Hydroxide	$\text{Ca}(\text{OH})_2$	3.64
Sodium sulphate	$\text{Na}_2 \text{SO}_4$	1.90
Cupric oxide	$\text{CuO}$	0.19
Moisture		1.03

100.31

Limonite from  
Kuban Iron mine

$2 \text{Fe}_2 \text{O}_3 \cdot 3 \text{H}_2 \text{O}$	Limonite	84.70
$\text{FeTiO}_3$	Ilmenite	0.46
	clay	4.81
	sand	4.50
$\text{Fe}(\text{PO}_4)_2 \cdot 8 \text{H}_2 \text{O}$	Vivianite	0.60
$\text{Fe}_2(\text{SO}_4)_3$	Ferric sulphate	2.29
	moisture	

99.26

besides the above, small quantity of (Fe-arsenate?)

$\text{Fe}_3(\text{AsO}_4)_2$  is contained.