

# THE INSTITUTE FOR CERTIFIED REFERENCE MATERIALS ICRM

## CERTIFICATE OF ANALYSIS

REFERENCE MATERIAL

No. E1

## DUST EMISSIONS OF ELEKTROSTEEL-SMELTING

CERTIFIED VALUES AND UNCERTAINTIES (95% confidence level), %

|                  |       |   |       |               |            |
|------------------|-------|---|-------|---------------|------------|
| Chrome oxide     | 20.3  | ± | 0.1   | Ferrous oxide | (21.0)     |
| Iron total       | 29.7  | ± | 0.1   | Fluorine      | (0.7)      |
| Silicon dioxide  | 10.3  | ± | 0.1   | Copper        | (0.1)      |
| Manganese oxide  | 1.56  | ± | 0.02  | Zinc          | (0.2)      |
| Calcium oxide    | 5.85  | ± | 0.05  | Potassium     | (0.1)      |
| Magnesium oxide  | 9.3   | ± | 0.1   | Sodium        | (0.1)      |
| Alumina          | 3.06  | ± | 0.04  | Vanadium      | (0.04)     |
| Carbon           | 0.684 | ± | 0.004 | Lead          | (0.05)     |
| Sulphur          | 0.072 | ± | 0.001 | Cobalt        | (0.03)     |
| Nickel oxide     | 3.68  | ± | 0.04  | Phosphorus    | (0.02)     |
| Titanium dioxide | 2.79  | ± | 0.04  | Arsenic       | (0.004)    |
|                  |       |   |       | Tin           | (< 0.0005) |

ADDITIONAL DATA: 1. Values in brackets are not certified.

2. Minimum weight of sample for analysis is 0.1 g.

3. Analytical methods used are given in Supplement.

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