

## Property Profile Cr<sub>2</sub>O<sub>3</sub> - Coating

- High wear resistance due to high hardness
- Chemical resistance (base and acid)
- Laser engravable
- Good ink receptivity

Product Number:

**IKH 6301**

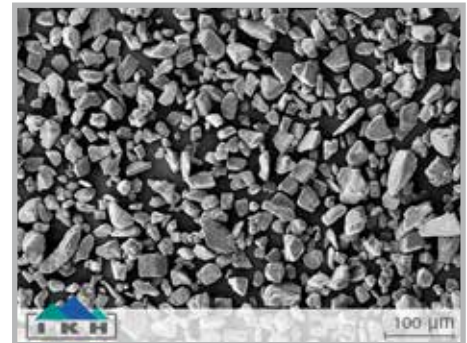
## Grain Size Distribution

Grain Size	Distribution
37	-125 +45 μm
36	-106 +45 μm
20	-90 +45 μm
19	-63 +16 μm
17	-53 +16 μm
16	-45 +22 μm
14	-45 +5 μm
08	-30 +5 μm
07	-25 +5 μm
06	-22 +5 μm



## Typical Chemical Composition

Cr <sub>2</sub> O <sub>3</sub>	base
SiO <sub>2</sub>	< 0,1 %
TiO <sub>2</sub>	< 0,1 %
Fe <sub>2</sub> O <sub>3</sub>	< 0,1 %
MgO	< 0,1 %
CaO	< 0,1 %
Al <sub>2</sub> O <sub>3</sub>	< 0,1 %
Cr met.	< 0,1 %



## Coating Properties

Hardness: approx. 1300 HV 0,3

Applicable up to 500 °C

Electr. Resistance: 10<sup>7</sup> WmA

Melting Point: approx. 2.345 °C

## Spray Parameters

Plasmagenerator	F4
Plasma Gas Ar (SLPM)	38
Plasma Gas H <sub>2</sub> (SLPM)	9
Current (A)	500
Spray Distance (mm)	120

