TREIBACHER INDUSTRIE AG

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TREIBACHER INDUSTRIE AG
Innovation is our tradition.

YTTRIUM OXIDE *Y203*

Properties
White powder, insoluble in water, soluble in acids

Application
- Used in the manufacture of mono and polycrystalline ferrite materials for the electronics industry
- Synthetic gemstones
- Red colour in phosphors for colour television tubes
- Increasing the refractive index and reducing light dispersion in glass
- Manufacture of special optical glass, such as camera lenses
- Optical systems and lenses for extreme temperatures, e.g. in aerospace engineering
- Refractory and conductive ceramics
- Oxygen sensors for emission control
- Manufacture of ceramic pigments
- Pole impregnation in batteries, accumulators and lasers

Chemical analysis

		99,9 %	**99,99 %**	**99,999 %**	**99,9999 %**
Material base					
TREO*		min. 99,0 %	min. 99,0 %	min. 99,0 %	min. 99,0 %
Loss on ignition, 1000°C		max. 1,0 %	max. 1,0 %	max. 1,0 %	max. 1,0 %
Fe_2O_3		< 50 ppm	< 20 ppm	< 5 ppm	< 2 ppm
CaO		< 60 ppm	< 30 ppm	< 10 ppm	< 5 ppm
Na_2O		< 60 ppm	< 30 ppm	< 10 ppm	< 5 ppm
SiO_2		< 500 ppm	< 250 ppm	< 50 ppm	< 25 ppm
Al_2O_3		< 250 ppm	< 150 ppm	< 50 ppm	< 25 ppm
K_2O		< 60 ppm	< 30 ppm	< 10 ppm	< 5 ppm
TREO base					
Y_2O_3		min. 99,9 %	min. 99,99 %	min. 99,999 %	min. 99,9999 %
Total remaining RE-Oxides		max. 0,1 %	max. 100 ppm	max. 10 ppm	max. 1 ppm

***TREO = **T**otal **R**are **E**arth **O**xide

Physical parameters

PSD d50	(Microtrac)	2 – 10 µ
BET		2 – 12 m^2/g

Packing
- Plastic boxes with 1, 5 or 10 kgs net
- Plastic or steeldrums with 25 kgs resp. 50 kgs net
- BigBags with 500 resp. 1.000 kgs net
- Other packing on request