

## TECHNICAL DATA

### LX 5200 white

**code 70511 - 70512 - 70513**

#### Use

White fused aluminium oxide LX 5200 is especially adapted to the production of bonded abrasives - wheels, segments, laps - for grinding and polishing. It is recommended for machining heat-sensitive materials.

LX 5200 white is suitable for all types of binders although LX 5200 white is typically used with ceramic binders.

LX 5200 white is used in blasting process, air pressure blasting and lapping. For example, it is used in the production of thin sheet iron or when iron contamination must be avoided.

LX 5200 white is also used as a wear resistant coating both in ceramics and resins. It doesn't affect the colour of the mixture in which it is incorporated.

#### Description

LX 5200 is crystallised aluminium oxide made by melting in an electric furnace with controlled crystallization. Several treatments give him equal grain shape.

#### Specifications

- |                     |   |                |                                     |
|---------------------|---|----------------|-------------------------------------|
| ➤ structure         | : alpha alumina   |                |                                     |
| ➤ shape             | : blocky  |                |                                     |
| ➤ chemical analysis | : %   | <u>Typical</u> |                                     |
|                     | Al <sub>2</sub> O <sub>3</sub>                          | 99.60          |                                     |
|                     | Na <sub>2</sub> O                                       | 0.18           |                                     |
|                     | SiO <sub>2</sub>  | 0.01           | Fe <sub>2</sub> O <sub>3</sub> 0.02 |
|                     | CaO+MgO   | 0.02           |                                     |
| ➤ melting point     | : ± 2.050 °C  |                |                                     |
| ➤ KNOOP hardness    | : 2.100 kg/mm <sup>2</sup> (HK 100)                     |                |                                     |
| ➤ standard grit     | : F54, F60, F80, F220 following FEPA standard. European |                |                                     |

FEPA standard 42-F-1984 is about bonded abrasive grit size.  
For grit F54, F60, F80, F220, this standard is very close to  
ANSI (American National Standard).

For information, average diameter using FEPA standard : code 70511 - F54 - 300  $\mu$   
code 70511 - F60 - 250  $\mu$   
code 70513 - F80 - 180  $\mu$   
code 70512 - F220 - 63  $\mu$

- absolute density (Pycnometer) : 3.97
- bulk density - Average loose densities in grames/cm<sup>3</sup> (FEPA 44-F-1986) :  
code 70511 - F54 : 1.76 - 1.92  
F60 : 1.75 - 1.91  
code 70513 - F80 : 1.77-1.93  
code 70512 - F220 : 1.55-1.71

### Packaging

LX 5200 white is packed in recycled paper bags of 25 kg.

### Precautions by use

White fused aluminium oxide LX 5200 white is non toxic product. On storage properties remain unchanged indefinitely. We recommend the usual precautions during use of any non toxic powder.