

DURHART® 200

Fused cast ceramics



DURHART® 200 is a fused cast ceramic which offers excellent abrasion-resistant performance.

Its method of production allows the fabrication of wear-resistant linings for any required shape obtained by casting.



DURHART® 200 is particularly resistant to sliding abrasion produced by very aggressive fine particles moving at high speed or by larger elements with low impact, as in the case of hoppers or chutes.

DURHART® 200 is produced from a mixture of extremely pure metallic oxides (principally Alumina, Zircon and Silica) melted in an electric furnace at very high controlled temperatures (over 1800°C)

This resulting mixture is then poured into custom designed sand moulds.



DURHART® 200 preserves its properties even reaching very high temperatures (1500°C), is unaffected by atmospheric agents and offers a remarkable chemical inertia to bases and acids (except hydrofluoric acid).



The shape of the **DURHART® 200** parts depends on the required structure to be protected: flat or curved tiles, straight pipes, elbows, cones or nozzles.

AREAS OF USE

WA PRODUR recommends **DURHART® 200** for a wide range of utilisations :

- Pneumatic and hydraulic conveying systems
- Mill Linings
- Chutes
- Cyclones
- Hydro cyclones
- Hoppers
- Classifier cyclones
- Wall or floor linings
- ...



PRODUCTION SCHEDULE

Thickness (mm)	Shape	Dimensions (mm)
25 to 50	Tiles to bond or bolt	200 x 150 to 250 x 250
25	Straight Pipes	Min. I.D. - 50
30	Elbows	Min. I.D. - 50

NB : Consult us concerning any other specific request for special shapes or custom dimensions.

MECHANICAL CHARACTERISTICS

Density	3.5
Mohs Hardness (Diamond reference of 10)	9
Abrasion Resistance in adapted cases	3 to 5 times higher than DURZALT® (1)

(1) See Technical Data Sheet

METHODS OF BONDING

After adjusting and blocking into the right position, the final bonding of each **DURHART® 200**, component can be carried out in one of the following ways:

- Through the use of a suitable mortar adapted to the operating conditions of the equipment (temperature or chemical aggressiveness)
- By bolting onto the structure using a thin intermediary layer of resilient material
- By welding metallic inserts which were added during the fabrication process

Assembling, by appropriate systems, the different Durhart elements in the metal shell, we get dressed sets whose internal geometry is «perfect», ie without facets.



CONTACT

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