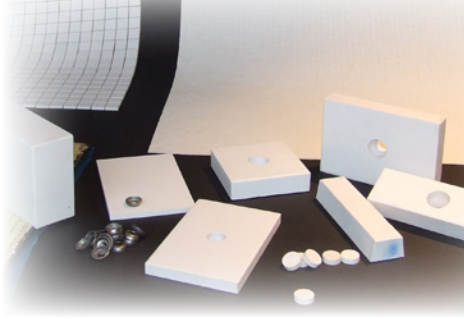
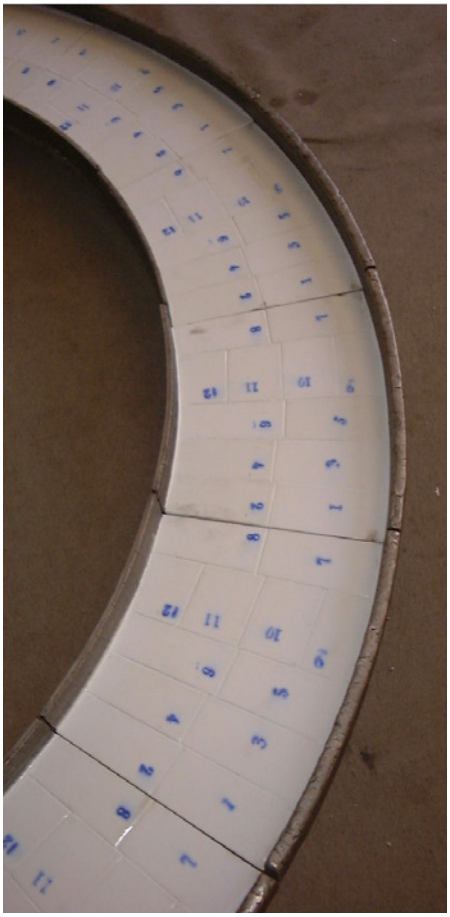
ALDUR® 240

Sintered Alumina



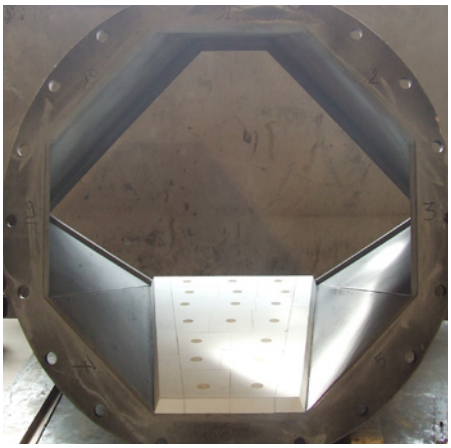
ALDUR® 240 is a high performance technical ceramic.
Its abrasion resistance is exceptional. In addition, it offers an excellent resistance to chemical aggression and has outstanding mechanical properties which permit the production of linings with a thickness of 1.5 to 75 mm.

These characteristics make it the leader among sliding abrasion resistant material.



ALDUR® 240 is produced from a complex blend of powders containing 92% alumina (Al203) of outstanding purity.
This powder is shaped, then compressed at very high pressure. At this stage, the part can be cut or machined. The resulting block is then fired in a furnace at 1500°C.

At the end of this process **ALDUR® 240** acquires an extremely compact high density structure with such a superior hardness level that its abrasion resistance is far superior to all normally encountered materials.

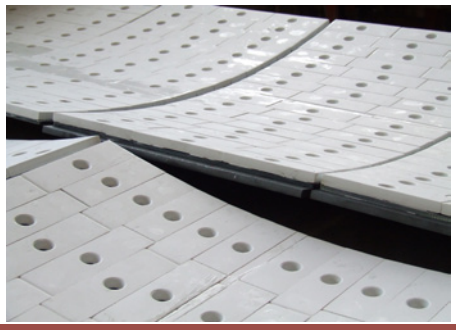


ALDUR® 240 preserves its characteristics even reaching very high temperatures, is unaffected by atmospheric agents and offers a remarkable chemical inertia to bases and acids (except hydrofluoric acid)

AREAS OF USE

ALDUR® 240 linings are recommended for the following equipment :

- Nozzles
- Cyclones
- Mills
- Feeders
- Classifiers
- Chain Conveyors
- Silos
- Hoppers
- Fan casings
- Cones
- Chutes
- Concrete Mixers
- Pneumatic/hydraulic pipe conveying systems



ALDUR® 240 is a brand owned by the company WA PRODUR

PRODUCTION SCHEDULE

Standard tiles to bond or weld

Thickness (mm)	Shape	Dimensions (mm)
1,5 à 6	20 x 20 mm tiles on panels to bond	500 x 500
6 à 75	Tiles to bond or weld	100 x 100 or 100 x 50

NB : ALDUR® 240 tiles are available in numerous dimensions.
Consult us concerning any other specific shape or custom dimensions.

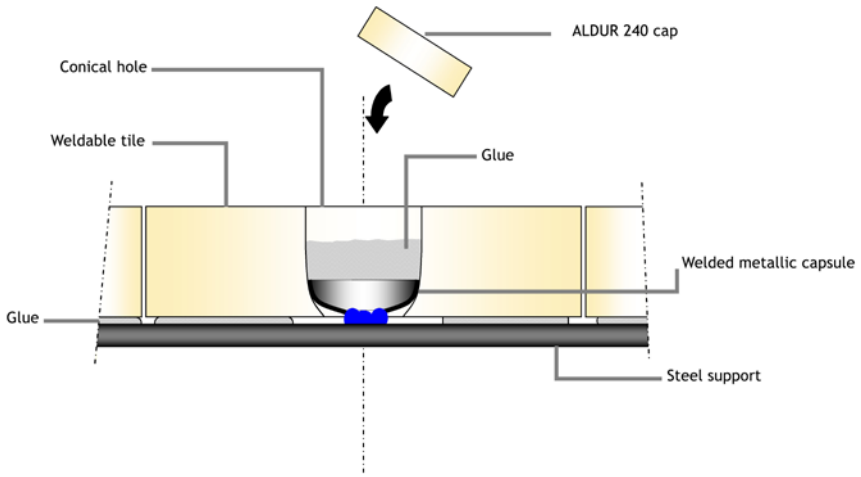
MECHANICAL CHARACTERISTICS

Density	3,57
Mohs Hardness (Diamond reference = 10)	9
Abrasion resistance in adapted cases	Higher level than DURHART® (1)

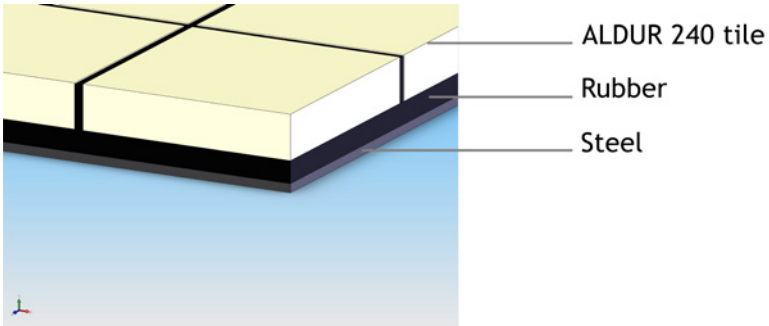
(1) See technical data sheet

METHODS OF BONDING

- **By bonding :** using epoxy, silicone or polyurethane glue.
- **By welding** a blocking metallic capsule on the structure in a conical hole after silicone or polyurethane gluing



- **By vulcanisation** on rubber or rubber+steel, produced under the **ALGUM®** brand name.



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