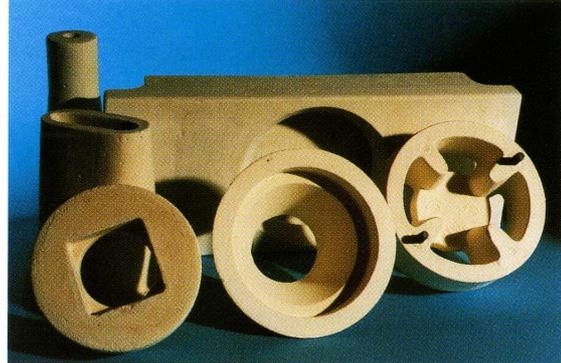


CERAMIC PREFABRICATED ITEMS

PROTECME SPA have been producing a wide range of ceramic prefabricated items, used in aluminium foundries, for many years.

- Hot-top rings
- Floats and spouts for casting of billets
- Floats and spouts for casting of slabs
- Molten metal transfer and distribution launders
- Filter inserts
- Lining of pouring spoons and feeding systems
- Protection of metal parts in contact with molten aluminium and its alloys



TECHNICAL CHARACTERISTICS

- Density: 1.2 – 1.5 g/cm³
- Thermal conductivity: 0.16 W/m°C
- Compressive strength (UNI EN 196): 45 MPa
- Bending strength (UNI EN 196): 10 MPa
- Compression elastic modulus (UNI 6556): 18000 MPa

ADVANTAGES

- High thermal insulation
- Non wetted by molten metal
- Low density
- No need of further surface protection
- Reduced maintenance costs
- Possibility of machining the pieces
- Asbestos and/or hazardous substances free



STORAGE AND USE

- No special precautions are required for storage; anyway it is necessary to keep the pieces in a dry place
- The product is not hazardous, nevertheless, in case it must be machined (cut, ground, milled, etc.), it is advisable that these operations are carried out applying dust extraction systems and wearing suitable protection devices for respiratory system, skin and eyes.

SPECIALLY DESIGNED WITH CARBON FIBRES FOR APPLICATIONS REQUIRING HIGH RESISTANCE TO TEMPERATURE, LOW WEAR AND IMPROVED MECHANICAL STRENGTH

APPLICATIONS

- Floats and spouts for casting of billets
- Floats and spouts for casting of slabs
- Filter inserts
- Protection of metal parts in contact with molten aluminium and its alloys

TECHNICAL CHARACTERISTICS

- Density: 1.1 – 1.3 g/cm³
- Thermal conductivity: 0.15 W/m°C
- Compressive strength UNI EN 196: 60 MPa
- Bending strength UNI EN 196: 12 MPa
- Compression elastic modulus UNI 6556: 19500 MPa
- Maximum working temperature: 1000 °C

ADVANTAGES

- High thermal insulation
- Non wetted by molten metal
- Low density
- No need of further surface protection
- Reduced maintenance costs
- Possibility of machining the pieces
- Asbestos and/or hazardous substances free



STORAGE AND USE

- No special precautions are required for storage; anyway it is necessary to keep the pieces in a dry place
- The product is not hazardous, nevertheless, in case it must be machined (cut, ground, milled, etc.) it is advisable that these operations are carried out applying dust extraction system and wearing suitable protections devices for respiratory system, skin and eyes



SPECIALLY DESIGNED WITH CARBON FIBRES AND SURFACE TREATMENT FOR APPLICATIONS REQUIRING HIGH RESISTANCE TO TEMPERATURE, LOW WEAR AND GOOD FLOWABILITY OF MOLTEN METAL

APPLICATIONS

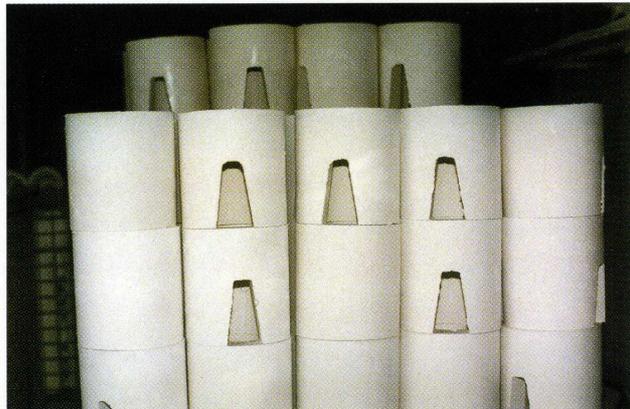
- Hot top rings
- Molten metal transfer and distribution launders
- Lining of pouring spoons and feeding systems

TECHNICAL CHARACTERISTICS

- Density: 1.1 – 1.3 g/cm³
- Thermal conductivity: 0.15 W/m°C
- Compressive strength UNI EN 196: 60 MPa
- Bending strength UNI EN 196: 12 MPa
- Compression elastic modulus UNI 6556: 19500 MPa
- Maximum working temperature: 1000 °C

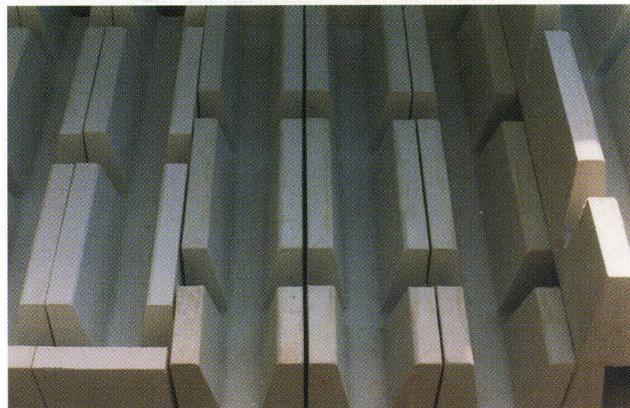
ADVANTAGES

- High thermal insulation
- Non wetted by molten metal
- Low density
- No need of further surface protection
- Reduced maintenance costs
- Possibility of machining the pieces
- Asbestos and/or hazardous substances free



STORAGE AND USE

- No special precautions are required for storage; anyway it is necessary to keep the pieces in a dry place
- The product is not hazardous, nevertheless, in case it must be machined (cut, ground, milled, etc.) it is advisable that these operations are carried out applying dust extraction system and wearing suitable protections devices for respiratory system, skin and eyes



CERAMET FOR THE LINING OF MOLTEN ALUMINIUM TRANSFER LADLES WITH AN INSULATING LIGHT MATERIAL

PROTECME SPA can supply carpentry and ladles for aluminium alloys, lined with CERAMET®, low density, high insulation capacity and long lasting material. The ladles are made on PROTECME's design or on customer's drawing, with 20 to 600 kg capacity.

ADVANTAGES

- Absence of the dross originated by common linings
- Reduced metal pollution
- Reduced decrease of temperature
- Reduced overall costs

