21RF01

Aluminium shaped disk with antimibrobial treatment

Description

Aluminium disk designed to distribute the pressure over a larger surface area in order to prevent the panel from being damaged. It is used for the assembly of reinforcing section bars, guide plates and whenever the surface area subject to stress must be increased.

Dimensions

The disk has a diameter of 100 mm and the central hole measures 10 mm in diameter.

Carachteristics

The disks in question are made from aluminium alloy denominated as follows:

- Conventional designation of the alloy:

P - ALP 99,5 UNI 4507

- Alloy marking (optional):

P - AP 5

- Numerical designation:

1050 A

Composition of the alloy

Chemical composition %										
%	Si	Fe	Cu	Mn	Mg	Zn	Ti	Fe+Si+Cu+Zn+Ti	Other impurities	Al
Min.	/	/	/	/	/	/	/	/	/	99,5
Max.	0,25	0,4	0,05	0,05	0,05	0,07	0,05	0,5	0,03	/

Physical properities

The values given below are meant as a guideline only as they may vary from lot to lot.

- Specific weight: 2.7 kg/dm^3
- Lower melting point: 658 °C
- Specific heat at 100 °C: 0.22 cal/(g °C)
- Heat conductivity at 20 °C: 0.5 cal/(s cm °C)
- Coefficient of linear thermal expansion from 20 °C to 100 °C: 24/1000000 °C
- Coefficient of linear thermal expansion from 20 °C to 200 °C: 25/1000000 °C
- Coefficient of linear thermal expansion from 20 °C to 300 °C: 26/1000000 °C
- Resistivity: 2.83÷2.90 μΩcm
- Modulus of elasticity: 6,900 kg/mm^2

Mechanical properties

- Tensile strength at break: 13÷18 kg/mm^2
- Specified characteristic proof strength: 4÷9 kg/mm^2
- Elongation %: 4÷9
- Brinell hardness: 35÷45 kg/mm^2

Technological process and treatment

The process used to obtain the sheet aluminium for the article in question is as follows:

- Full annealing at 360÷400 °C for 2÷4 hr at steady temperature.

Technological properties

In accordance with the regulations, the following list of descending classifications is adopted to indicate the alloy's technological properties:

excellent-good-sufficient-mediocre-deficient-poor

- Cold workability: excellent
- Weldability: good

- Machinability: sufficient
- Polishability: sufficient
- Corrosion strength:
  marine environment: in the range sufficient to good
  town and rural environment: good
  interiors: good
- Anodizability: good

Technical characteristics of the antimicrobial treatment

Aluminium shaped discs are treated with a special epoxy paint added with an element which, in addition to inhibiting the proliferation of microbes, guarantees greater resistance to aggressive chemical agents: the coating is tested in compliance with ISO 22196.
Coating thickness: 40 ÷ 50 μm
Colour: RAL 5024
Surface appearance: glossy-shaped disks are treatment with a special epossidic paint

Packaging

Boxes of 100 pieces.