

2° PART*

| TECHNICAL DATA SHEET OF DIE CASTING ALUMINIUM AB 46100 (accessories). | | | | | | |
|-----------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------|---------------------------|----------------------------|---------------------|
| CHEMICAL TEST (% of elements) | | | | | | |
| Cu 1,869 | Mg 0.133 | Si 11,445 | Fe 0,794 | Mn 0,207 | Ni 0,084 | Zn 1,164 |
| Pb 0,141 | Sn 0,022 | Ti 0,061 | Cr 0,048 | Sb 0,003 | P >0,0020 | Na 0,0005 |
| MECHANICAL AND BEHAVIOUR PROPERTIES OF ALLOY AB 46100 | | | | | | |
| CHARACTERISTICS | SENTENCE | | FAMILY | | | |
| Fluidity | Excellent | | Aptitude, obtaining or as cast | | | |
| Resistance at shrinkage cracking | Good | | | | | |
| Pressure tightness | Correct | | | | | |
| As cast | Correct | | Other properties, workability | | | |
| After heat treatment | - | | | | | |
| Corrosion proofness | Ordinary | | | | | |
| Decorative anodising | Not recommended | | | | | |
| Aptitude at smoothness | Correct | | | | | |
| Linear thermal expansion 10/K 293-373K | 20 | | | | | |
| Elettrical conduttivity MS/m | From 14 to 18 | | | | | |
| Heat conduction W/(mk) | From 120 to 130 | | | | | |
| Weldability | Uncompatible | | | | | |
| Resistance to room temperature | Good | | Mechanical properties | | | |
| Resistance at temperature up to 200° C | Good | | | | | |
| Ductility (resistance to shock) | Ordinary | | | | | |
| Fatigue resistance Mpa | From 60 to 90 | | | | | |
| MINIMUM MECHANICAL PROPERTIES OF ALLOY FOR CAST OBTAIN BY DIE-CASTING | | | | | | |
| Alloy | Specification metallurgical state | Resistance to tensile strenght Rm MPa min. | Unit load of shifting from proportionality Rp 0.2 MPa min. | Extension A50 mm% min. | Hardness Brinell HBS | |
| EN AB 46100 | F | 240 | 140 | <1 | 80 | |