



Standard: **EN 1706 ALUMINUM AND ALUMINUM ALLOYS CASTINGS**
EN 1676 ALUMINUM ALLOYED INGOTS FOR REMELTING

Alloy group: **Al Si 9 Cu**

Alloy designation: **EN AB and AC 46400 - Al Si 9 Cu 1 Mg**

Replaces: **UNI 7369/3 - SG Al Si 9 Cu 1**

CHEMICAL COMPOSITION %

| ALLOY | | ELEMENTS | | | | | | | | | | | | |
|-------------|-----|----------|-----|------|------|------|----|------|------|------|------|------|-----------------------|-------------------|
| | | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Sn | Ti | Individual impurities | Global impurities |
| EN AB 46400 | min | 8,3 | | 0,8 | 0,15 | 0,30 | | | | | | 0,10 | | |
| | max | 9,7 | 0,7 | 1,3 | 0,55 | 0,65 | - | 0,20 | 0,8 | 0,10 | 0,10 | 0,18 | 0,05 | 0,25 |
| UNI 7369/3 | min | 8,3 | | 0,80 | 0,20 | 0,30 | | | | | | 0,10 | | |
| | max | 9,7 | 0,7 | 1,30 | 0,5 | 0,60 | - | 0,20 | 0,70 | 0,10 | 0,10 | 0,20 | | 0,8* |

MECHANICAL FEATURES DETECTED FROM SEPARATE CASTING TEST SPECIMENS

| Casting process | Temper designations | Rm Tensile strenght | | Sp 0,2 Proof Stress | | A Elongation | | HB Brinell hardness | |
|------------------------|---------------------|------------------------|------------|------------------------|------------|-----------------|------------|------------------------|------------|
| | | EN 1706 | UNI 7369/3 | EN 1706 | UNI 7369/3 | EN 1706 | UNI 7369/3 | EN 1706 | UNI 7369/3 |
| | | Mpa | N/mm2 | Mpa | N/mm2 | % | % | HBW | HB |
| SAND (as cast) | F | 135 | 145-165 | 90 | 90-110 | 1 | 1-1,5 | 60 | 60-80 |
| | | | | | | | | | |
| CHILL (as cast) | F | 170 | 215-235 | 100 | 135-155 | 1 | 3-4 | 75 | 70-80 |
| | T6 | 275 | 295-315 | 235 | 245-255 | 1,5 | 2-3 | 105 | 105-130 |
| PRESSURE DIE (as cast) | | | | | | | | | |

Merkez Ofis/Head Office : Baksav San.Sit Mustafa Kurdođlu Cad. no:22/2 Beylikdüzü/İSTANBUL/TURKEY
 Fabrika/Factory : Mimarsinan Mah. Eski Bađlar Cad. No:23 Kapaklı - Çerkezköy / Tekirdađ/TURKEY

Tel/Phone : +90 212 875 22 22
 Faks/Fax : +90 212 875 99 83
 E-posta/E-mail : info@mesek.com.tr