GKR METAL



Standard: **EN 1706 ALUMINIUM AND ALUMINIUM ALLOY CASTINGS**
**EN 1676 ALUMINIUM ALLOYED INGOTS FOR REMELTING**

Alloy Group: **Al Si 9 Cu**

Replaces: **LM 24**

Alloy Designation: **EN AB and AC 46500 - Al Si 9 Cu 3 (Fe)(Zn)**

## CHEMICAL COMPOSITION %

| ALLOY | | ELEMENTS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Sn | Ti | Individual Impurities | Global Impurities |
| EN AB 46500 | min | 8,0 | 0,60 | 2,00 | | 0,15 | | | | | | | | |
| | max | 11,0 | 1,20 | 4,00 | 0,55 | 0,55 | 0,15 | 0,55 | 3,00 | 0,35 | 0,25 | 0,20 | 0,05 | 0,25 |
| LM 24 | min | 7,5 | | 3,00 | | | | | | | | | | |
| | max | 9,5 | 1,3 | 4,00 | 0,55 | 0,30 | 0,15 | 0,55 | 3,00 | 0,35 | 0,25 | 0,20 | 0,05 | 0,25 |

## 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 Mpa | BS 1490:88 N/mm2 | EN 1706 Mpa | BS 1490:88 N/mm2 | EN 1706 % | BS 1490:88 % | EN 1706 HBW | BS 1490:88 HB |
| SAND (as cast) | | | | | | | | | |
| | | | | | | | | | |
| CHILL (as cast) | | | | | | | | | |
| | | | | | | | | | |
| PRESSURE DIE (as cast) | F | 240 | 180-320 | 140 | 100-150 | 1 | 1-3 | 80 | 80-100 |

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