

AMW

ALUMINIUM METALLURGY WORKS

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GSTIN: 06DJCPP9481E1ZX



CHEMICAL COMPOSITION FOR ALLOYS

| Designation | | Aluminium | Copper | Magnesium | Silicon | Iron | Manganese | Zinc | Ti and/or other Grain Refining Elements | Chromium | Remarks |
|-------------|------|-----------|----------|-----------|---------|---------|-----------|----------|---|-----------|-------------------------------------|
| New | Old | | | | | | | | | | |
| 19000 | E1C | 99.0 min | 0.1 | - | 0.5 | 0.6 | 0.1 | - | - | - | Ti+V=0.07; Total impurities=1.00 |
| 19500 | E1B | 99.5 min | 0.05 | - | 0.3 | 0.4 | 0.05 | - | - | - | Ti+V=0.07; Total impurities=0.50 |
| 19501 | E1E | | | | | | | | | | |
| 52000 | NE4 | Remainder | 0.1 | 1.7-2.6 | 0.6 | 0.5 | 0.5 | 0.2 | 0.2 | 0.25 | Cr+Mn=0.5 |
| 53000 | NE5 | Remainder | 0.1 | 2.8-4.0 | 0.6 | 0.5 | 0.5 | 0.2 | 0.2 | 0.25 | Cr+Mn=0.5 |
| 63400 | HE9 | Remainder | 0.1 | 0.4-0.9 | 0.3-0.7 | 0.6 | 0.3 | 0.2 | 0.2 | 0.1 | |
| 63401 | E91E | Remainder | 0.05 | 0.4-0.9 | 0.3-0.7 | 0.5 | 0.03 | 0.1 | 0.1 | 0.03 | Others 0.03 each total 0.1 |
| 64430 | HE30 | Remainder | 0.1 | 0.4-1.2 | 0.6-1.3 | 0.60 | 0.4-1.0 | 0.1 | 0.2 | 0.25 | |
| 65032 | HE20 | Remainder | 0.15-0.4 | 0.7-1.2 | 0.4-0.8 | 0.7 | 0.2-0.8 | 0.2 | 0.2 | 0.15-0.35 | Either Mn or Cr Shall be present |
| 6061 | | Remainder | 0.15-0.4 | 0.8-1.2 | 0.4-0.8 | 0.7 | 0.15 | 0.25 | 0.15 | 0.04-0.35 | Others each 0.05 total 0.15 |
| 6005 | | Remainder | 0.10 | 0.4-0.6 | 0.6-0.9 | 0.35 | 0.10 | 0.10 | 0.10 | 0.10 | Others each 0.05 total 0.15 |
| 6060 | | Remainder | 0.1 | 0.35-0.6 | 0.3-0.6 | 0.1-0.3 | 0.1 | 0.15 | 0.1 | 0.5 | Others each 0.05 total 0.15 |
| 6066 | | Remainder | 0.7-1.2 | 0.8-1.4 | 0.9-1.8 | 0.5 | 0.6-1.1 | 0.25 | 0.2 | 0.4 | Others each 0.05 total 0.15 |
| 64423 | | Remainder | 0.5-1.0 | 0.5-1.3 | 0.7-1.3 | 0.8 | 1.0 | - | - | - | |
| 6082 | | Remainder | 0.10 | 0.6-1.2 | 0.7-1.3 | 0.50 | 0.40-1.0 | 0.20 | 0.10 | 0.25 | |
| 3103 | | Remainder | 0.1 max | 0.3 max | 0.5 max | 0.7 max | 0.9-1.5 | 0.2 max | 0.2 max | 0.1 max | 0.1 Zr+Ti |
| 24345 | | Remainder | 3.8-5.0 | 0.2-0.8 | 0.5-1.2 | 0.7 max | 0.3-1.2 | 0.2 max | 0.3 max | 0.3 max | |
| 6262 | | Remainder | 0.15-0.4 | 0.8-1.2 | 0.4-0.8 | 0.7 max | 0.15 max | 0.25 max | 0.15 max | 0.04-0.14 | Bi:0.4-0.7 & Pb: 0.4-0.7 |
| 7075 | | Remainder | 1.2-2.0 | 2.1-2.9 | 0.4 max | 0.5 max | 0.3 max | 5.1-6.1 | 0.2 max | 0.18-0.28 | 0.25 Zr+Ti |

TEMPER GRADES

