

Data Sheet: Aluminium Foil

Chemical Composition:

| Alloy | Si | Fe | Cu | Mn | Mg | Cr | Zn | Zr | Ti | Other | Al (min) |
|-------|------|---------|----------|---------|------|------|------|------|-------|-------|----------|
| 1050 | 0.25 | 0.40 | 0.05 | 0.05 | 0.05 | | 0.07 | | 0.05 | 0.03 | 99.50 |
| 1200 | 1.00 | Si + Fe | 0.05 | 0.05 | | | 0.10 | | 0.05 | 0.15 | 99.00 |
| 3003 | 0.60 | 0.70 | 0.5-0.21 | 1.0-1.5 | | | 0.10 | | | 0.15 | Rem |
| 3103 | 0.50 | 0.70 | 0.10 | 0.9-1.5 | 0.30 | 0.10 | 0.20 | 0.10 | Zr+Ti | 0.15 | Rem |

Quantities are maximum unless otherwise stated.

Figures from the above table are taken from the Aluminium Associations Registration Record of Alloy Designations and Chemical Compositions limits.

Mechanical Properties:

| Alloy | Gauge | Soft Temper | | | Hard Temper | | |
|-------|---------|------------------------|------|----------------|------------------------|------|----------------|
| | | Tensile Strength (Mpa) | | Elongation (%) | Tensile Strength (Mpa) | | Elongation (%) |
| | | Min. | Max. | Min. | Min. | Max. | Min. |
| 1050 | 6-9 | 35 | 80 | 1 | 135 | - | - |
| | 10-24 | 40 | 85 | 1 | 135 | - | - |
| | 25-40 | 45 | 90 | 2 | 135 | - | - |
| | 41-89 | 45 | 95 | 4 | 135 | - | - |
| | 90-139 | 50 | 95 | 6 | - | - | - |
| | 140-200 | 50 | 95 | 10 | - | - | - |
| 1200 | 6-9 | 40 | 95 | 1 | 140 | - | - |
| | 10-24 | 45 | 100 | 1 | 140 | - | - |
| | 25-40 | 50 | 105 | 3 | 140 | - | - |
| | 41-89 | 55 | 105 | 6 | 140 | - | - |
| | 90-139 | 60 | 105 | 10 | - | - | - |
| | 140-200 | 60 | 105 | 14 | - | - | - |
| 3003/ | 35-40 | 80 | 130 | 7 | 175 | 200 | 1 |
| 3103 | 41-89 | 80 | 130 | 8 | 175 | 200 | 1 |
| | 90-139 | 80 | 130 | 12 | 175 | 200 | 1 |
| | 140-200 | 80 | 130 | 15 | 175 | 200 | 1 |

Figures from the above table have been taken from BS EN 546-2.