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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TABLE SI. Chemical composition and mechanical properties of aluminium alloy 2024-T351 and 7075-T651. | | | | | | | | | | | | | | | | |
| Aluminium alloy | Cu | | | Mg | Cr | | Zn | | | Mn | Si | | | Fe | Ti | Al |
| 7075-T651 | 1.3 | | | 2.3 | 0.19 | | 5.6 | | | 0.02 | 0.03 | | | 0.14 | 0.05 | Balance |
| 2024-T351 | 4.38 | | | 1.5 | 0.01 | | 0.02 | | | 0.49 | 0.05 | | | 0.12 | 0.05 | Balance |
| Mechanical properties | | | | | | | | | | | | | | | | |
| Aluminium alloy | | Yield strength (MPa) | | | | Ultimate tensile strength (MPa) | | | Percentage elongation  (%EL) | | | Vickers microhardness at 1kgf load at 15s (Hv) | | | | |
| 7075-T651 | | | 529 | | | 564 | | 13 | | | | | 175 | | | |
| 2024-T351 | | | 406 | | | 477 | | 17 | | | | | 138 | | | |