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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 |