

Material Specification Sheets

Direct Metal 3D Printing

| | Unit | Aluminium AlSi10Mg | Stainless Steel 1.4404 | Titanium Ti6Al4V |
|-----------------------|-----------|-----------------------|---------------------------|---------------------|
| Build Space | mm | 248x248x350 | 248x248x350 | 248x248x350 |
| Tensile strength | MPa | 397 ± 11 | 633 ± 28 | 1286 ± 57 |
| Yield strength | MPa | 227 ± 11 | 519 ± 25 | 1116 ± 61 |
| Elongation at break | % | 6 ± 1 | 30 ± 5 | 8 ± 2 |
| Reduction of area | % | 8 ± 1 | 49 ± 11 | 30 ± 10 |
| Modulus of elasticity | GPa | 64 ± 10 | 184 ± 20 | 111 ± 4 |
| Vickers hardness | HV10 | 117 ± 1 | 209 ± 2 | 384 ± 5 |



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| Parameter | Unit | Full- Colored Plaster |
|-----------------------------------|-------------------|-----------------------|
| Build Space | mm | 350x250x200 |
| Tensile strength | MPa | 14,2 |
| Elongation at break | % | 0,23 |
| Modulus of elasticity | MPa | 9450 |
| Flexural Strength | MPa | 31,1 |
| Flexural Modulus | MPa | 7163 |
| HDT, °C @ 0.45MPa | °C | k.A. |
| HDT, °C @ 1.82MPa | °C | k.A. |
| Izod Notched Impact | J/m | k.A. |
| Water Absorption | % | k.A. |
| Tg (Glass Transition Temperature) | °C | k.A. |
| Shore Hardness (D) | Scale D | k.A. |
| Shore Hardness (A) | Scale A | k.A. |
| Rockwell Hardness | Scale M | k.A. |
| Polymerized density | g/cm ³ | k.A. |
| Ash content | % | k.A. |

