

Material Type

Al 2219

Characteristics

WAAM aluminium wire ER2319 type designed for 3D-printing processes.
This alloy offers higher strength and ductility after post weld heat treatment.

Typical analysis of the solid wire (wt.-%)

| | Mg | Mn | Cu | Zr | Ti | Al |
|-------|--------|------|-----|------|------|------|
| wt.-% | < 0.02 | 0.35 | 6.3 | 0.18 | 0.14 | Bal. |

Available products

Diameter: 1,0 mm – 1,2 mm
Package: S300 7 kg – Drum
Other diameters and packages on request.

Typical mechanical properties acc.to EN ISO 15792-1

| Heat treatment | Yield strength $R_{p0.2}$ | Tensile strength R_m | Elongation ($L_0=5d_0$) |
|----------------|------------------------------|---------------------------|---------------------------|
| | MPa | MPa | % |
| As welded | 250 | 280 | 15 |
| hardened | 350 | 450 | 10 |

Classification as welding consumable:

| EN ISO 18273-A | AWS A5.10 |
|-------------------------|-----------|
| S Al 2319 (AlCu6MnZrTi) | ER2319 |