

DM 625

DM 625 is a nickel based superalloy qualified for metal AM in Digital Metal's binder jetting system.

625 alloys are weldable grade superalloys suited for a wide variety of applications, such as high temperature aerospace, power generation, oil/gas, marine, chemical processing and many more.

The material exhibits high strength, toughness and excellent corrosion resistance in both oxidizing and reducing environments, even at elevated temperatures.

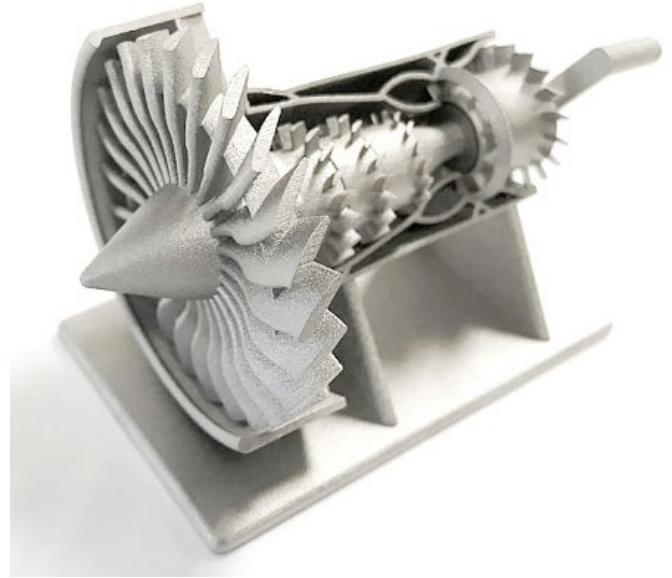
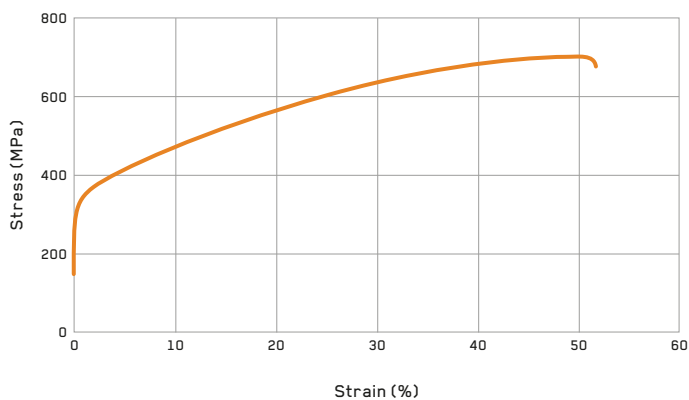
COMPOSITION - TYPICAL VALUES

Al	Co	Cr	Fe	Mn	Mo	Nb	Ni	Si	Ti
0,30	0,15	21	0,75	0,04	9,0	3,8	Bal	0,02	0,30

Related denominations: UNS N06625, 2.4856 and NCF625

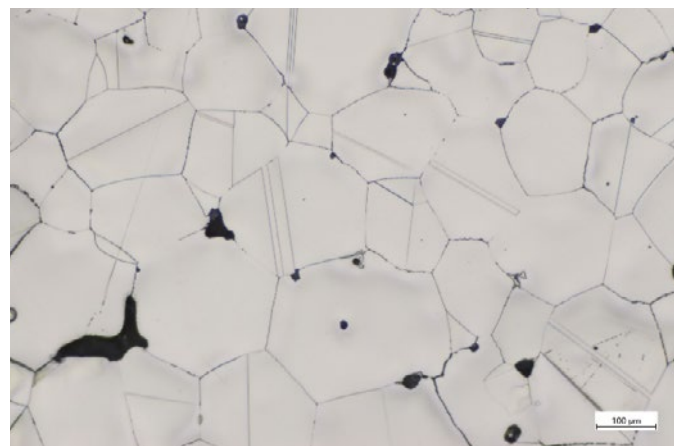
PHYSICAL PROPERTIES - TYPICAL VALUES

Composition (% weight)	As sintered
Ultimate tensile strength (MPa)	725
Yield strength (MPa)	325
Elongation (%)	45
Hardness (HRB)	82
Relative density (%)	98



FEATURES

- Excellent corrosion resistance
- High strength and toughness - without heat treatments
- Very good weldability
- Wide service temperature range - from cryogenic up to almost 1000 °C



As sintered microstructure