CHEMTRON INSPIRED BY INNOVATION

DIGITAL METAL®

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 [WEIGHT%]

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

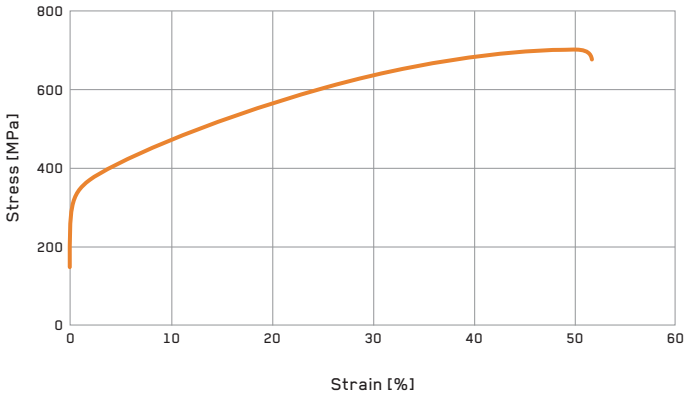
Related denominations: UNS N06625, 2.4856 and NCF625

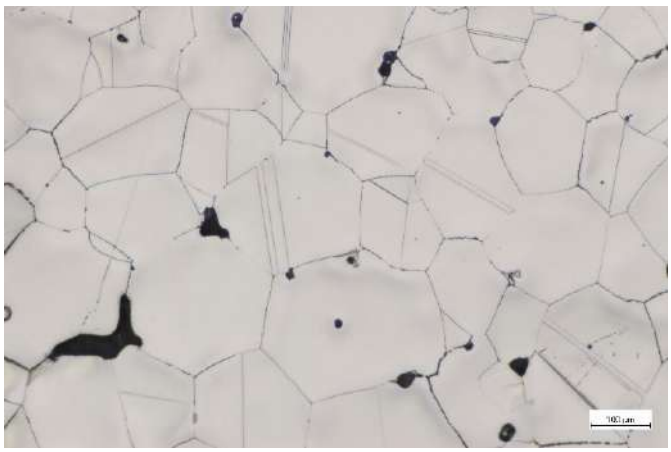
PHYSICAL PROPERTIES – TYPICAL VALUES

Property	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