

CEWELD Powder 625

TYPE Nickel-Chromium-Molybdenum based metal powder

APPLICATIONS CEWELD® Powder 625 is suitable for the restoration and repair of superalloy components. It is also recommended for coatings that must protect less noble materials from oxidation. It is designed for the repair of wornout or fitting components made of Inconel 713C, Inconel 625, or similar substrates.
Typical Application: Restoration and repair of superalloy components in power generation and aerospace. Reclaiming worn surfaces on gas turbine parts (e.g., Inconel 713C, Inconel 625 substrates). Protective coatings / cladding on carbon and low-alloy steels in chemical processing, marine environments, and oil & gas equipment.

PROPERTIES The composition of CEWELD® Powder 625 corresponds to that of Inconel 625, so the coatings exhibit excellent oxidation and corrosion resistance at high temperatures. The typical operating temperature ranges from -196°C up to 850°C.
Standard particle size: 150/52 µm
Other available grain sizes:
 106/20 µm, 106/38 µm, 106/45 µm, 125/38 µm, 125/45 µm, 150/45 µm, 150/53 µm, 150/63 µm, 180/53 µm, 180/63 µm, 210/63 µm, 250/45 µm, 63/20 µm, 75/20 µm

CLASSIFICATION EN ISO 14232-1 NiCrMoNb2294
 W.Nr. ~2.4831

SUITABLE FOR

- DMLS, (direct metal laser sintering)
- LMD, (laser metal deposition)
- PTA (plasma Transferred Arc)
- HVOF (High Velocity Oxygen Fuel)

APPROVALS

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	C	Cr	Ni	Nb	Fe	Mo
	0.08	21	Rem.	3.8	3	9

MECHANICAL PROPERTIES

REDRYING Not required

GAS ACC. EN ISO 14175