

CEWELD Powder C-276

TYPE Nickel-Chromium-Molybdenum-Tungsten based metal powder

APPLICATIONS CEWELD® Powder C-276 is a nickel-based superalloy powder that combines high wear and corrosion resistance.
Typical Areas of Use and Applications
 Chemical Process , Petrochemical, Oil & Gas, Pharmaceutical, Geothermal , Sea Water, LNG (Liquefied Natural Gas), Nuclear Power
Applications in chemical processing: gate valves, pump components, pistons, compressor rods
Pulp and paper production: digesters, liquor tanks
Gas turbine applications: ducts, extraction distributor rings, (rocket engine components)

PROPERTIES CEWELD® Powder C-276 is similar to Hastelloy C276 and produces coatings with excellent corrosion resistance. It is resistant to crevice corrosion, pitting corrosion, and a wide range of media, including sulfuric acid and chlorine. Protection against sliding wear and corrosion at high temperatures; resistant to abrasion and seizing, oxidation resistance up to 980 °C (1800 °F)
 Corrosion and wear resistance up to 875 °C (1600 °F)
 Petrochemical applications: pump pistons, linings, sleeves, compressor rods
Standard particle size: 150/52 µm
Other available grainsizes:
 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 CrNiMo18123
 W.Nr. ~ 2.4819

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	Fe	W	Mo
	0.008	15	Rem.	4	3.5	16

MECHANICAL PROPERTIES

REDRYING Not required

GAS ACC. EN ISO 14175