

INCONEL 625

DIRECT METAL LASER SINTERING MATERIAL

DESCRIPTION:

PARTS BUILT FROM EOS NICKELALLOY IN625 CAN BE HEAT TREATED AND MATERIAL PROPERTIES CAN BE VARIED WITHIN SPECIFIED RANGE. PARTS CAN BE MACHINED, SPARK-ERODED, WELDED, MICRO SHOT-PEENED, POLISHED AND COATED IN BOTH AS-BUILT AND IN HEAT TREATED CONDITIONS. THIS TYPE OF ALLOY IS CHARACTERIZED BY HAVING HIGH TENSILE, CREEP AND RUPTURE STRENGTH. CONVENTIONALLY CAST OR WROUGHT COMPONENTS IN THIS TYPE OF NICKEL ALLOY HAVE TYPICALLY EXCELLENT FATIGUE AND THERMALFATIGUE PROPERTIES COMBINED WITH GOOD OXIDATION RESISTANCE.



NICKELALLOY IN625 IS EXPECTED TO HAVE GOOD CORROSION RESISTANCE IN VARIOUS CORROSIVE ENVIRON-MENTS. ESPECIALLY SEA-WATER APPLICATIONS REQUIRE HIGH PITTING AND CREVICE CORROSION RESISTANCE, STRESS-CORROSION RESISTANCE AGAINST CHLORIDE-IONS, HIGH TENSILE AND CORROSION-FATIGUE STRENGTH. HOWEVER, CORROSION RESISTANCE HAS NOT BEEN VERIFIED YET AND THEREFORE IT IS RECOMMENDED TO CONDUCT RELEVANT CORROSION TESTS AND STUDIES PRIOR TO USE IN SPECIFIC CORROSIVE ENVIRONMENT.







SERVICES AVAILABLE

PRODUCT DESIGN
RAPID PROTOTYPING
SLA
FRSLA
POLYJET
SLS
DMLS

FDM
PLASTIC CASTING
CNC MACHINING
INJECTION MOLD TOOLING
RAPID TOOLING
PRODUCTION TOOLING
INJECTION MOLDING
METAL CASTING

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