

STAINLESS STEEL 17-4

DIRECT METAL LASER SINTERING MATERIAL

DESCRIPTION:

STAINLESS STEEL 17-4 IS A PRE-ALLOYED STAINLESS STEEL IN FINE POWDER FORM. ITS COMPOSITION CORRESPONDS TO US CLASSIFICATION 17-4 AND EUROPEAN 1.4542 AND FULFILLS THE REQUIREMENTS OF AMS 5643 FOR MN, MO, NI, SI, C, CR AND CU. THIS KIND OF STEEL IS CHARACTERIZED BY HAVING VERY GOOD CORROSION RESISTANCE AND MECHANICAL PROPERTIES, ESPECIALLY EXCELLENT DUCTILITY IN LASER PROCESSED STATE, AND IS WIDELY USED IN A VARIETY OF ENGINEERING APPLICATIONS.

APPLICATIONS:

THIS MATERIAL IS IDEAL FOR MANY PART-BUILDING APPLICATIONS (DIRECT PART) SUCH AS FUNCTIONAL METAL PROTOTYPES, SMALL SERIES PRODUCTS, INDIVIDUALIZED PRODUCTS, SPARE PARTS, PARTS REQUIRING HIGH CORROSION RESISTANCE, STERILISABILITY, HIGH TOUGHNESS AND DUCTILITY.



STAINLESS STEEL 17-4

PROPERTY	ISO	METRIC UNITS
ULTIMATE TENSILE STRENGTH	MPIF 10	1050 MPA
0.2% YIELD STRENGTH	MPIF 10	540 MPA
ELONGATION	MPIF 10	25 %
MODULUS OF ELASTICITY	MPIF 10	170 GPa
HARDNESS, ROCKWELL C	6507-1	230 HV1

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

1681 KETTERING STREET
IRVINE, CA 92614
PHONE 714.641.7111
FAX 714.641.3111

DINSMOREINC.COM