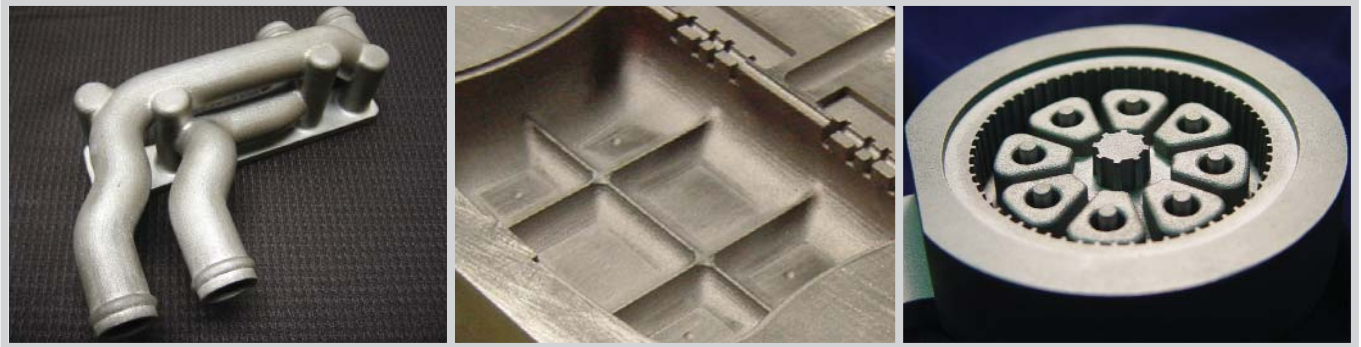




LaserForm™ A6 metal

for use with Sinterstation® HiQ™ series and other SLS® systems

Create complex metal parts suitable for Rapid Tooling and Rapid Manufacturing.



Quickly produce tooling with conformal cooling channels and other complex metal parts.

APPLICATIONS

- Complex tooling inserts for injection moulding and die-casting
- Conformal cooling or heating channels integrated into tool designs
- Smaller and complex geometry metal parts
- Low volume metal part manufacturing

FEATURES

- Good surface finish
- Compatible with machining, EDM processing and polishing
- High surface hardness
- Excellent thermal conductivity
- Good “green” part strength

BENEFITS

- Fast — from STL file to metal parts in less than 4 days
- Outstanding repeatability
- Eliminates human errors made in conventional metal and tool making processes
- Tooling inserts can improve moulding cycle time by up to 40%
- Creative design possibilities

LaserForm™ A6 metal

For use with Sinterstation® HiQ™ series and other SLS® systems

Quickly create metal parts



Build "green" part



Cover "green" part and bronze infiltrant with alumina powder

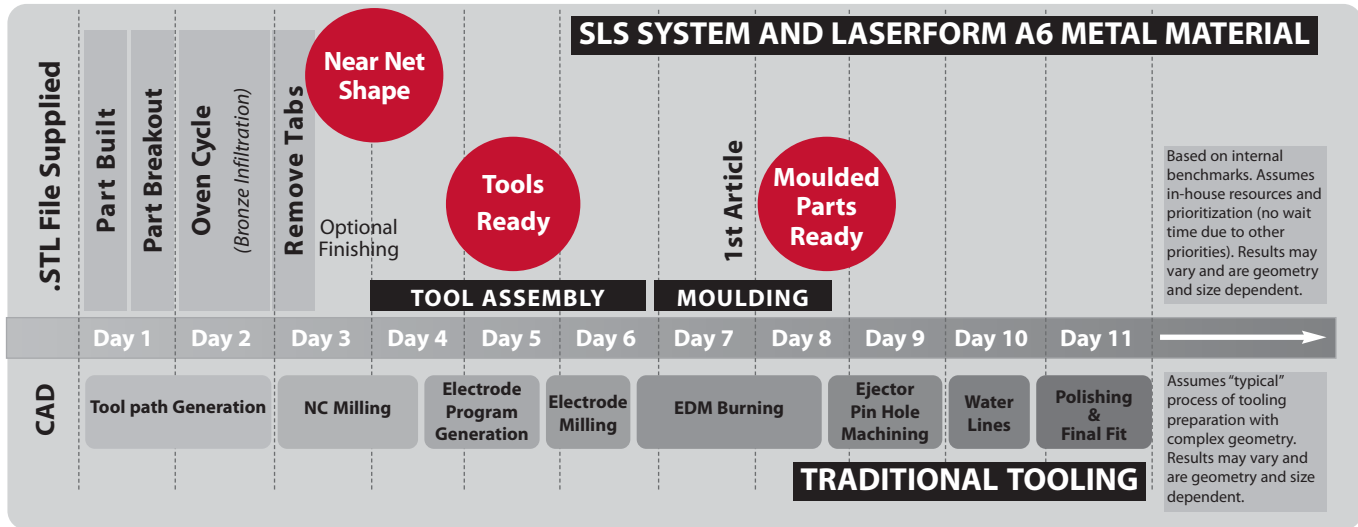


Place into oven to debind and infiltrate



Post-finish, as necessary

Compare SLS metal tooling vs. traditional tooling



Produce functional metal tooling in less than 4 days using LaserForm A6 material, compared to 11+ days needed to prepare traditional tooling inserts.

TECHNICAL DATA

Mechanical Properties* (Sintered and Infiltrated)

MEASUREMENT	METHOD/CONDITION	METRIC	US
Specific Gravity	ASTM D792	7.8 g/cm ³	7.8 g/cm ³
Tensile - Yield Strength (0.2%)	ASTM E8	470 MPa	68 ksi
Tensile Strength	ASTM E8	610 MPa	88 ksi
Elongation (%)	ASTM E8	2.0 - 4.0%	2.0 - 4.0%
Young's Modulus	ASTM E8	138 GPa	20,000 ksi
Compression - Yield Strength	ASTM E8	480 MPa	70 ksi
Hardness (Rockwell "C")	as infiltrated	HRC = 10 - 20 (polished surface)	
	as heat treated	HRC = 39	
Thermal Conductivity @ 215°C	ASTM E457	39 W/m-°C	23 BTU/ft-hr-°F
Coefficient of Thermal Expansion	ASTM E831	7.45 µm/m-°C	4.14 µin/in-°F

* Data was generated from testing of bronze infiltrated parts produced with LaserForm A6 material and a Vanguard™ HS SLS system using 3D Systems' defined parameters. Material properties may vary and are dependent upon part geometry and other factors.



3D Systems Europe Ltd.
 Mark House, Mark Road
 Hemel Hempstead
 Herts HP2 7UA - UK
 www.3dsystems.com

Tel: (+44) 1442 282 600
 Fax: (+44) 1442 282 601
 marketing.uk@3dsystems.com
 Nasdaq: TDSC

3D Systems GmbH
 Postfach 12 02 07
 D-64239 Darmstadt
 Germany

Tel: (+49) 6151 357 0
 Fax: (+49) 6151 357 333
 info@3dsystems-europe.com

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

© 2007 by 3D Systems Corporation. All rights reserved. Specifications subject to change without notice. HIQ, LaserForm and Vanguard are trademarks, and Sinterstation, SLS and the 3D logo are registered trademarks of 3D Systems, Inc.