

## SERMATECH FACILITY CAPABILITIES

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### SERMATECH CALIFORNIA (310) 604-0018

**Thermal:**

- Arc Wire Spray
- Gator-Gard
- HVOF
- Plasma

**Type:**

- Al-Br
- Al-Poly
- CrC
- Cu-Ni-In
- MCrAlY
- Ni-Al
- WC
- WC-Co

**SermeTel®:**

- 725 (post cure @ 1000°F)
- 735
- 622
- 962
- 984/985
- 1083/1089/1140
- 1142
- 1273/1274
- 5380DP®
- 6F-1/2F-1
- N3000
- S4000
- 6000
- SermaLon®
- SermaLube®
- ShorCoat®
- W - Class I, II, IV

**Applications and approvals on various models of Turbine Engine Components:**

- Blade airfoils
- Blade and vane dovetails
- Cage supports
- Capsule assemblies
- Disks
- Fan blade shrouds
- Impellers
- Lipskins
- Rings
- Rotors
- Shroud assemblies
- Wheels

**Diffusion:**

- SermaLoy™ J

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### SERMATECH CANADA (514) 631-2240

**Thermal:**

- HVOF- DJ Hybrid, JetKote, JP-5000
- Plasma
- Wire arc coatings - SmartArc

**Special Processes:**

- Shot peening PT6 CT blade roots
- Strip & re-coat PT6 CT blades
- Stripping diffusion coatings

**SermeTel®:**

- 725
- 984/985
- 1083/1089/1140
- 5380DP®
- 6F-1/2F-1
- N3000

- S4000
- 6000
- Dry film lube, Molydisulfide
- SermaLon®
- ShorCoat®
- W

**Diffusion:**

- SermaLoy™ J

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### SERMATECH CONNECTICUT (860) 646-0700

**Thermal:**

- Abradable coatings
- CuNiIn on diaphragm hook fits/  
CuNiIn on compressor blade roots
- Hardface coatings/Wc, CrC
- IGT disk restoration - NiAl
- MCrAlY/TBC on T/Ps, C/Ls baskets, nozzle/vane segments, bucket blades
- Military flaps

**Special Processes:**

- Brazing
- Metbond
- Shot Peening
- Vacuum Heat Treat
- Welding

**SermeTel®:**

- 984/985
- 1083/1089/1140
- 1207/1208
- 5380DP®
- 6F-1/2F-1
- N3000

- S4000
- ShorCoat®
- W

**Diffusion:**

- SermaLoy™ J



## SERMATECH FACILITY CAPABILITIES

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### SERMATECH GERMANY +49-2056-93090

**Thermal:**

- CuNiIn on compressor blade roots SW 501

**Custom Coatings:**

- 984/1140 for Leibherr
- IP 9029
- SermaGard®
- Xylan

**MFSU (Mobile Field Service Unit):**

- Coat rotor in stacked condition, stator in situ, up to 120MT total weight
- Coat bladed wheels and diaphragms as well as single blades and vanes

**NDT:**

- Magnetic particle inspection
- Dye penetrate inspection

**Other Services:**

- Shot peening on blade roots

**Diffusion:**

- SermaLoy™ J

**SermeTel®:**

- 249/273/737
- 725 (post cure @ 1000°F)
- 984/985
- 1083/1089
- 1121
- 2241
- 5380DP® + 5380DPI
- 6F-1/2F-1/8F-1
- 6000
- Dry film lube, Molydisulfide
- Pos-e-coat
- SermaBond® 481
- SermaLon®
- SermaLube®
- W - Class I, II, IV

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### SERMATECH KOREA +82-55-260-2482

**Thermal:**

- Plasma
- HVOF
- Combustion spray
- Gator Gard

**Diffusion:**

- Pack cementation aluminizing & chromizing
- Vapor phase aluminizing & chromizing
- Pt-Aluminizing
- Boroinzing
- SermaLoy™ J

**SermeTel®:**

- 2241
- 5380DP®
- SermaFlow™
- SermaLon®
- SermaWear
- W

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### SERMATECH MAINE (207) 282-3787

**Thermal:**

- Plasma spray
- Powder flame spray

**Diffusion:**

- Pack cementation aluminizing & chromizing
- Vapor phase aluminizing & chromizing
- Pt-Aluminizing
- SermaLoy™ J
- SermaAlcote™

**SermeTel®:**

- 725
- 2F-1
- 5380DP®
- W

**Special Processes:**

- Vacuum Heat Treat



## SERMATECH FACILITY CAPABILITIES

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### SERMATECH MATERIALS DIVISION (610) 474-1200

Sermatech Materials Division manufacturers an extensive catalog of high performance coatings, cements, sealers, and lubricating compounds that are used around the world in a wide variety of markets, including: Aerospace, IGT, Petrochemical and chemical processing, Automotive, Industrial, Offshore Oil & Gas, Electronics & Food Handling.

Trade names include: SermeTel®, SermaBond®, & SermaSeal®

ISO9001 certified.

To purchase coating or request an MSDS/Technical Data , please email: [Linda Thumm \(lthumm@sermatech.com\)](mailto:Linda.Thumm@sermatech.com) or call the Materials Division at 610.474.1200 or 610.474.1158

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### SERMATECH PENNSYLVANIA (610) 474-1200

#### SermeTel®:

- 725
- 984/985
- 1083/1089/1140
- 5380DP®
- 6F-1/2F-1
- 6000
- Pos-e-coat
- SermaLon®
- SermaLon-Er
- SermaWear
- ShorCoat®
- W

#### SermaFlow™:

- A-1000, N-3000, S-4000

#### Diffusion:

- SermaLoy® J

#### Anti-Gallants:

- All graphite solid film lubricants
  - SermaLube® 20, 50, and 72
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### SERMATECH SCIENCE & TECHNOLOGY CENTER (610) 474-1200

#### Full Testing Capabilities include:

- Mechanical Testing - Adhesion, Bond, Strength, Flexibility, Wear, Abrasion, Erosion
- Environmental Testing - ASTM Salt Spray, Humidity, Acidified Salt Spray, SO<sub>2</sub> Humidity
- Thermal Testing - Cyclic Oxidation, Hot Corrosion Rig, Oxidation Rig
- Microscopic Analysis - Metallography with digital image analysis

#### Prototyping capabilities include:

- Controlled environment spray booths, Curing ovens, Burnishing capabilities, Dimensional analysis equipment
- Slurry Diffusion Coating
- Complete slurry formulation facilities
- Turnkey Organic Coating Application
- Turnkey SermeTel Coating Application
- Thermal spray coating application - multiple plasma spray + HVOF spray systems, plasma diagnostics, 6-axis robot + indexing turntable



## SERMATECH FACILITY CAPABILITIES

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### SERMATECH TEXAS (713) 849-9474

#### Thermal:

- Aluminum strip on blade roots
- CuNiIn on diaphragm hook fits/  
CuNiIn on compressor blade roots
- Hardface coatings/WC, CrC
- IGT disk restoration - NiAl
- MCrAlY/TBC on T/Ps, C/Ls baskets, nozzle/  
vane segments, bucket blades
- Shot peen on blade roots

#### Fluoropolymers:

- Various SermaShield™, sheet lining and powder coatings
- Blue Armor®

#### TSA (Thermal Spray Aluminum):

- Pipe for the under sea oil industry - TSA & Sealcote
- CharTech fire proofing coatings

#### Custom Coatings:

- Epoxy           • Phosphate (zinc and zinc/manganese)
- Phenolics      • SermaGard®
- Phenolics      • Zylan

#### SermeTel®:

- 5380DP®
- 6F-1/2F-1
- Pos-e-coat
- SermaLon®
- W

#### Diffusion:

- SermaLoy™ J
- SermaAlcote™ on nozzle segments and  
bucket blades

#### MFSU (Mobile Field Service Unit):

- On site Gas Turbine Compressor Coatings
- On site Gas Turbine Compressor Case  
Coatings
- On site Turbine Disk Restoration
- On site Inlet Plenum Coatings
- On site Steam Turbine Coating Appl.
- On site Thermal Spray Appl. with robotics

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### SERMATECH - UK LINCOLN +44-1522-878200; UK RIPLEY +44-1773-748921

#### Thermal:

- Plasma
- HVOF
- Combustion Spray
- Gator Gard

#### Custom Coatings:

- Hardface
- MCrAlY TBC
- Disc repair/salvage/build up coatings
- Abradable
- Ceramics

#### Diffusion:

- Pack aluminising
- SermaAlcote™
- SermaLoy™ J
- Process 1515

#### Type:

- WcCo, CuNiIn, NiCr,  
High energy
- WcCo, CoNiCrAly,  
CoCrAly, Chrome carbide
- Mo, NiAl, Chrome steel
- GGWC102  
GGC130

#### SermaFlow™:

- A1000, N3000, S4000,  
T5000, T5500

#### Chrome Free:

- SermaFlow A1000

#### SermeTel:

- 709
- 962
- 984/985
- 1083
- 1140
- 1740
- 5375
- 5380DP®
- 2F-1/6F-1
- 6000
- Dry film lubricant PL219
- Topcoat sealers 570A and 565
- W