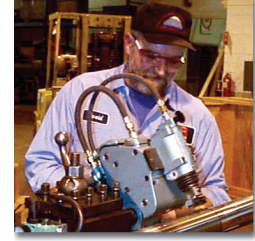
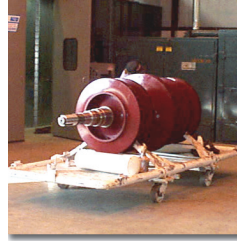


EEC-SH

Stationary Turbomachinery Component Coating



For a complete listing of products and services, visit www.dresser-rand.com or contact one of the following Dresser-Rand locations.

Dresser-Rand

Tulsa Technology Center
1345 S. Sheridan Rd.
Tulsa, Oklahoma 74112 USA
Tel: 918-835-8437
Fax: 918-832-7046

Dresser-Rand Corporate Headquarters

West8 Tower Suite 1000
10205 Westheimer Road
Houston, TX 77042 USA
Tel: (Int'l +1) 713-354-6100
Fax: (Int'l +1) 713-354-6110
email: info@dresser-rand.com

112, Avenue Kleber
75784 – Paris Cedex 16
Tel: (Int'l +33) 156 26 71 71
Fax: (Int'l +33) 156 26 71 72
email: info@dresser-rand.com

Regional Headquarters

The Americas

Dresser-Rand
West8 Tower Suite 1000
10205 Westheimer Road
Houston, TX 77042 USA
Tel: (Int'l +1) 713-354-6100
Fax: (Int'l +1) 713-354-6110

EMEA

(Europe, Middle East, Eurasia, Africa)
Dresser-Rand S.A.
31 Boulevard Winston Churchill
Cedex 7013
Le Havre 76080 France
Tel: (Int'l +33) 2-35-25-5225
Fax: (Int'l +33) 2-35-25-5366 / 5367

Asia-Pacific

Dresser-Rand Asia Pacific Sdn Bhd
Unit 9-4, 9th Floor
Bangunan Malaysian Re
17 Lorong Dungun
Damansara Heights
50490 Kuala Lumpur, Malaysia
Tel: (Int'l +60) 3-2093-6633
Fax: (Int'l +60) 3-2093-2622

Dresser-Rand Engineered Equipment Coating, EEC-SH, was developed primarily for enhancing surface smoothness to reduce frictional product flow losses through non-rotating components. Aerodynamic studies of turbomachinery components have shown that the greatest losses occur in the stationary components. EEC-SH reduces the final surface finish on new components to below 15 Ra to provide minimal frictional losses. It also acts as a sealer to provide an additional hardened barrier to impede erosive deterioration of the stationaries. This top coat can be added as part of a multi-layer metallic-ceramic system to reduce corrosive attack of the components.

The base coating provides a galvanic, sacrificial second line defensive layer to protect process equipment. This multilayer combination extends the operating life of unit components and increases on-line availability. The SH top coat presents a smoother surface to the process media which can also reduce the ability of foulants to adhere to the unit's internals.

Applications

EEC-SH is designed to be used on industrial compressor and steam turbine non-rotating components. The coating provides an improved surface finish and protection from harsh operating environments in the operating range of 3-9 pH. Components eligible for application* of the coating include but are not limited to:

- Compressor diaphragms
- Diffusers
- Inlet guides
- Turbine diaphragms
- Guide vanes
- Cases

*All coating applications will be reviewed by Dresser-Rand Engineering for applicability to the design and service conditions of the unit.

Typical Coating Properties

Average thickness: .8 - 1.5 mils
Surface roughness: <15 Ra (on new surfaces)
Max continuous operating temp: 500°F
Peak operating temp: 600°F
Coating adhesion (ASTM D2247): Excellent, no pickoff
Salt spray (ASTM B117 & CASS): No coating failure
Thermal shock, impact survival, abrasion resistance: Excellent

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