



# EEC-C1

## Engineered Coating for Turbomachinery

For a complete listing of products and service options, visit us on the Internet at [www.dresser-rand.com](http://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: +1 713-354-6100  
Fax: +1 713-354-6110  
email: [info@dresser-rand.com](mailto:info@dresser-rand.com)

### Regional Headquarters The Americas

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

### European Served Areas

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

### Asia-Pacific

Dresser-Rand Asia Pacific Sdn Bhd  
Unit 8-1, 8th Floor  
Bangunan Malaysian Re  
17 Lorong Dungun  
Damansara Heights  
50490 Kuala Lumpur, Malaysia  
Tel: 603-2093-6633  
Fax: 603-2093-2622



Dresser-Rand's Engineered Equipment Coatings, EEC-C1, were developed primarily for corrosion protection of rotating and stationary components. The coating is a multi-layer metallic-ceramic system which provides a galvanic sacrificial base as a second line defensive layer to protect process equipment from corrosive attack. The base coating is sealed with a tough corrosion retardant layer to serve as the first line of protection from severe operating environments. This multi-layer combination extends the operating life of unit components and increases on-line availability. The coating's smooth surface also will reduce the tendency of foulants to adhere to the coated components.

### Applications

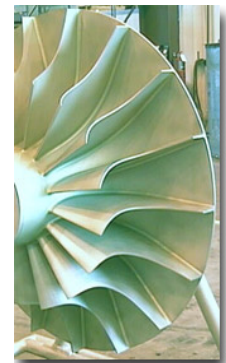
EEC-C1 is designed to be used on industrial compressor and steam turbine components. The coating provides protection from harsh operating environments in the operating range of 3-9 pH.

All coating applications are reviewed by Dresser-Rand for applicability to the design and service conditions of the unit. Components that may be coated include, but are not limited to, the following:

- Compressor impellers
- Diaphragms
- Inlet guides
- Guide vanes
- Diffusers
- Turbine blades
- Wheels
- Cases

### Typical Coating Properties

- Average thickness: 2-3.5 mils
- Surface roughness: <40 Ra (on new surfaces)
- Max continuous operating temp: 1100°F
- Peak operating temp: 1200°F
- Coating adhesion (ASTM D2247): Excellent, no pick-off
- Salt spray (ASTM B117 & CASS): No coating failure
- Thermal shock, impact survival, abrasion resistance:
- In compliance with Type 1 Class 4 MIL-C-81751B



©2003 Dresser-Rand Company. Printed in U.S.A. Form 2015

This document comprises a general overview of the products described herein. It is solely for informational purposes, does not represent a warranty or guarantee of the information contained herein and is not to be construed as an offer to sell or a solicitation to buy. Contact Dresser-Rand Company for detailed design and engineering information suitable to your specific applications. Dresser-Rand Company reserves the right to modify its products and related product information at any time without prior notice.

**DRESSER-RAND**