TECHNICAL DATA

CHEMICAL RESISTANCE OF ZEBRON® COATINGS

MEDIUM	EFFECTS	APPLYING OR TESTING AGENCY
OTHER CHEMICALS		
Magnetite Acid, Paper Mill	No effect	ZEBRON® R&D
Black Liquor, Paper Mill	No effect	N.W. Testing Lab
Oxygenated Wastewater	No effect	EPA Study
Raw Sewage	No effect	Orange County Sanitation
Alkaline Drilling Mud	No effect	ZEBRON® R&D
Acidic Drilling Mud	No effect	ZEBRON® R&D
Liquid Phosphate Fertilizer	No effect	ZEBRON® R&D
Aqua Regia	Slight discoloration	N.W. Testing Lab
Hydrogen Peroxide 30 Percent	Slight discoloration	N.W. Testing Lab
Chlorine Water (filtrate) 0.1 percent	Slight discoloration	N.W. Testing Lab
Sodium Hypochlorite 5.25 percent	Slight discoloration	N.W. Testing Lab
Chlorine Dioxide 1.5 percent	No effect	N.W. Testing Lab
Sulfur Dioxide 5 percent	Slight discoloration	N.W. Testing Lab
Magnesium Bisulfate 5 percent	No effect	N.W. Testing Lab
Ethyl Alcohol 98 percent	Slight discoloration	N.W. Testing Lab

PHYSICAL PROPERTIES OF ZEBRON® COATINGS

PROPERTY	MEASUREMENTS	STANDARDS
Color	Cream, Gray or Black	Visual
Specific Gravity	300 Series: 1.3 (10.84 lbs./gal.) 400 Series: 1.11 (9.23 lbs./gal.)	ASTM D-792 ASTM D-792
Tensile Strength	2500 PSI at 25°C (77°F)	ASTM D-683
Bond Strength	2500 PSI on Steel	Elcometer
Flexibility	No effect bending 0.5 mm plate coated with 20 mils of ZEBRON® over mandrel of 8 mm diameter	ASTM D-1737
Elongation	Recoverable: 67% at 25°C (77°F)	ASTM D-638
Impact	1. 1637 in./lb. 2. No failures	ASTM G-14 on steel pipe ASTM-1709A
Compressibility	4200 PSI	ASTM D-695
Surface Hardness	60 to 70	SHORE “D”
Abrasion Resistance	1. 250.000 units 2. Weight loss .0102m Taber Abraser H-10 wheel, 1000 gms. 1000 cycles	ASTM D-658 FTMS-141
	3. 1.4 microns/hour from coated discs circulated at 2280 RPM in sea water with 1.9 percent quartz meal	Netherlands Paint Research Council TNO
	4. 1.5 mils loss in 2800 hrs in circulating 35% SIC and 5% Fe Slurry	Rensselaer Polytechnic Institute
	5. Two microns wear following 1320 hours in rotating drum containing ice and abrasive particles	Rensselaer Polytechnic Institute
Leach Rate	0.03 Mg/Sq. In. (Per EPA Protocol, December 1970)	U.S. Testing Company