

Ferotec Friction, Inc.

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PRODUCT DATA SHEET

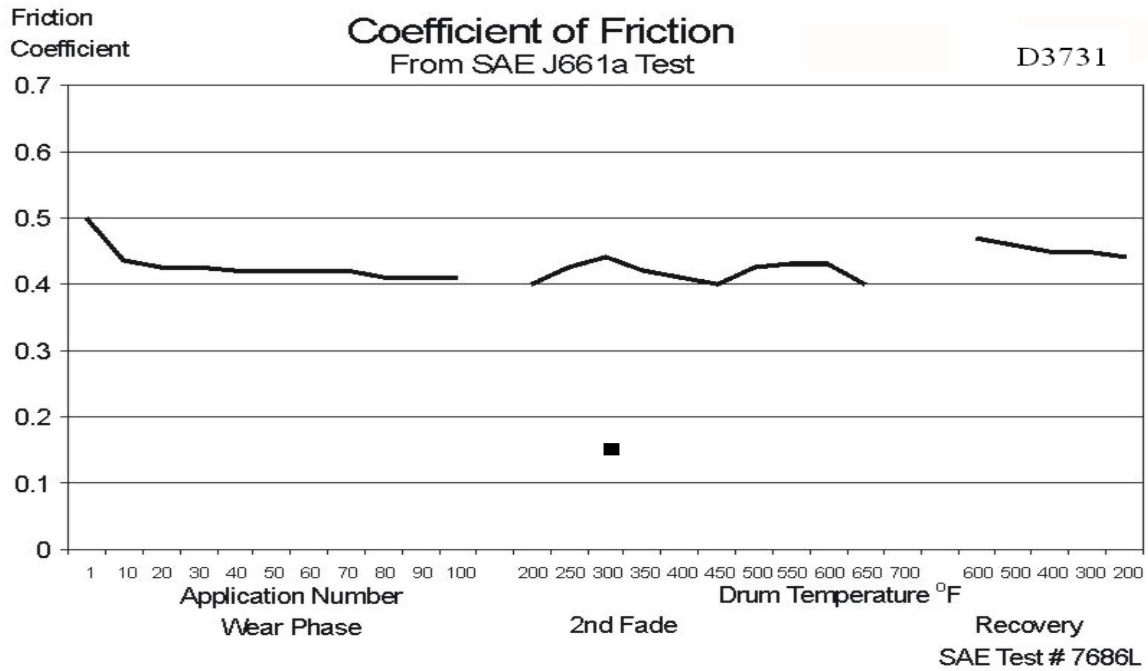
FRICITION MATERIAL COMPOSITE: **D3731**

PRODUCT DESCRIPTION: D3731 is a medium coefficient rigid molded material. It can be either bonded or riveted to brake shoes or metal parts.

APPLICATION: D3731 is a general purpose material recommended for use in band or shoe applications. It offers excellent resistance to fade and wear. It is also recommended for wind turbine yaw brakes as it has a proven history of quiet operations and long wear life.

| PHYSICAL PROPERTIES | | |
|---|------------|----------------|
| Available Sizes (1) | | |
| Width, inches | | 28 Max. |
| Thickness, inches | | 0.187 to 1.500 |
| Length, inches | | 36 Max. |
| Specific Gravity | SAE J380 | 2.10 |
| Apparent Density, pounds/in ³ | | 0.067 |
| Hardness, Gogan | SAE J379 | 23 ± 5 |
| (1) Special sizes available on request | | |
| MECHANICAL PROPERTIES | | |
| Tensile Strength, psi | ASTM D638 | 2200 |
| Modulus x 10 ⁶ , psi | | 1.12 |
| Elongation, % | | 0.43 |
| Flexural Strength, psi | ASTM D790 | 4000 |
| Modulus x 10 ⁶ , psi | | 1.54 |
| Compression Strength, psi | ASTM D695 | 18,500 |
| Shear Strength, psi | ASTM D732 | 4300 |
| THERMAL PROPERTIES | | |
| Conductivity, BTU-in/hr/ft ² /°F | ASTM D2214 | 2.32 |
| Specific Heat, Cal/gm/°C | ASTM C351 | TBD |

| FRICTION PROPERTIES | | |
|---|----------|--------|
| Coefficient of Friction (2) | SAE J661 | |
| Normal | | .42 |
| Hot | | .42 |
| @ 400°F | | .42 |
| Static @ 200°F | | .50 |
| @ 400°F | | .47 |
| Wear Rate, in ³ /hp-hr | | 0.0040 |
| Friction Code | SAE J866 | FF |
| Recommended Operating Limits (3) | | |
| Maximum Unit Pressure, psi | | 300 |
| Maximum Rubbing Speed, ft/min | | 5000 |
| Temperature, °F | | |
| Minimum | | -10 |
| Maximum (Intermittent) | | 650 |
| Maximum (Continuous) | | 550 |
| (2) Data derived from SAE J661a dynamometer test results. | | |
| (3) Recommended operating limits are commensurate with a reasonable amount of wear and uniform performance. | | |



NA = not available
N/A = not applicable
NR = not recommended
TBD = to be determined

The information and data supplied in this data sheet are believed to be accurate and reliable, and were obtained from standard laboratory tests. Since actual conditions of use are not within the control of **Ferotec Friction, Inc.** it is suggested that **D2017** be thoroughly tested and its suitability for use be determined before final acceptance.