

ID Material: 29
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Revision: 6
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NT-DV

NT-DV is red molded friction material composed with fibres. **It has excellent mechanical characteristics, high compression strength and resistant to high temperatures.** Specially designed for hard working conditions. The material consists phenolic resins with a NBR bonding system, short fibres, friction modifiers and fillers. NT-DV is fully cured and suitable for bonding and riveting.

Material data

Friction Properties (according graphics)

| | | |
|--|------------|----|
| Static Friction Coefficient (15bar, from box): | 0.55±0.05 | μ |
| Static Friction Coefficient (15bar, 100°C): | 0.59±0.05 | μ |
| Dynamic Friction Coefficient: | see charts | |
| Wear Rate: | see charts | |
| T ^o Fading: | >350 | °C |

Physical properties

| | | |
|------------------------------------|----------|--------------------|
| Hardness (DIN53505): | 85±5 | Shore-D |
| Specific Gravity (ASTM D792): | 1.9±0.05 | gr/cm ³ |
| Ignition Loss (ASTM D7348): | 40±2 | % |
| Thermal Conductivity (ASTM E1952): | 0.27±0.1 | W/m ² K |

Mechanical properties

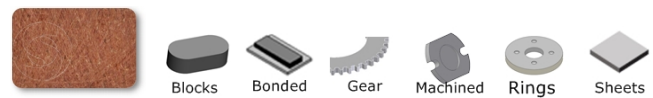
| | | |
|--------------------------------------|-----------|-------------------|
| Tensile Strength (ASTM D638): | 30±5 | N/mm ² |
| Compressive Strength (ISO 844:2014): | 175±5 | N/mm ² |
| Shear Modulus (ASTM D2344-00): | 3390±100 | N/mm ² |
| Poisson Coefficient (ASTM D638): | 0.24±0.03 | |
| Young Modulus (ASTM D638): | 8400±100 | N/mm ² |

Recommended Working Values

| | | |
|---|-----|----|
| T ^o Max. Continuous Operation: | 300 | °C |
| T ^o Max. Intermittent Operation: | 400 | °C |

Material type : Rigid material

Appearance / Formats



Applications

Brake blocks - Forging machinery - Heavy duty static applications - Industrial clutches - Punch-die press blocks - Rings segments for machinery - Torque limitator

Price Level : € € €

Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

Others

| | |
|-----------------------------|--|
| Recommended Mating Surface: | Perlitic cast iron, hardness HB150-200 |
| Recommended Adhesives: | Thermosetting adhesive |
| Oil Resistant: | Yes |

