



ID MATERIAL: 29  
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REVISION: 5  
DATE: 23/05/2014

FRICTION MATERIAL:

# NT-DV

## > DESCRIPTION

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 TABLE

| > FRICTION PROPERTIES                     | Value     | Unit                 |
|---|-----------|----------------------|
| Dynamic Friction Coefficient (@79N, 7m/s) | 0.50±0.05 | μ                    |
| Wear Rate (@79N, 7m/s)                    | 60±10     | mm <sup>3</sup> /kwh |
| T° Fading (@100N, 11.5m/s)                | 330±10    | °C                   |
| > PHYSICAL PROPERTIES                     |           |                      |
| Hardness (DIN53505)                       | 90±5      | Shore-D              |
| Specific Gravity (ASTM D792-91)           | 1.9±0.05  | gr/cm <sup>3</sup>   |
| Ignition Loss (ASTM D-2524)               | 40±2      | %                    |
| Acetone Extraction ISO2859-1              | 2±0.2     | %                    |
| > MECHANICAL PROPERTIES                   |           |                      |
| Tensile Strength (ASTM D638-10)           | 23±5      | N/mm <sup>2</sup>    |
| Compressive Strength (UNE 53205)          | 174±5     | N/mm <sup>2</sup>    |
| > RECOMMENDED WORKING VALUES              |           |                      |
| T° Max. Continuous Operation              | 250       | °C                   |
| T° Max. Intermittent Operation            | 350       | °C                   |

**MATERIAL TYPE** Rigidid mould friction material

**APPEARANCE**



**FORMATS**



**APPLICATIONS**

- Industrial clutches
- Brake blocks
- Ring segments for machinery
- Have duty industrial machinery
- Forging machinery
- Torque limiter
- Punch die press blocks

**RECOMMENDED MATING SURFACE** Perlitic cast iron, hardness HB150-200

**OIL RESISTANCE** Yes

**RECOMMENDED ADHESIVE** Thermosetting adhesive

**PRICE LEVEL** € € €

**REACH (EC)1907/2006** Compliance

**RoHS 2011/65/EU** Compliance

## > LEGEND



Discs



Sheets



Finished Parts



Bonded



Blocs



Gear discs



Segments

Friction coefficient (μ) vs Temperature (°C) @ 80psi 7m/s

