

ID Material: 29  
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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 <sup>o</sup> Fading:	>350	°C

### Physical properties

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

### Mechanical properties

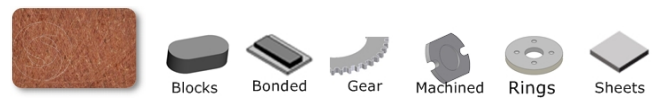
Tensile Strength (ASTM D638):	30±5	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	175±5	N/mm <sup>2</sup>
Shear Modulus (ASTM D2344-00):	3390±100	N/mm <sup>2</sup>
Poisson Coefficient (ASTM D638):	0.24±0.03	
Young Modulus (ASTM D638):	8400±100	N/mm <sup>2</sup>

### Recommended Working Values

T <sup>o</sup> Max. Continuous Operation:	300	°C
T <sup>o</sup> 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)1907/2006 - RoHS 2011/65/EU : Compliance

### Others

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

