

ID Material: 4  
Rble: R. Antich  
Revision: 6  
Date: 17/03/2017

# SA92

SA92 is a Frenos Sauleda standard formulation which is suitable for light medium duty. It is a rigid material, with low wear and very stable friction performance. The material main composition is phenol resins with a NBR bonding system, short fibres, friction modifiers and fillers. SA92 is fully cured and suitable for bonding and riveting.

## Material data

### Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.45±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.50±0.05	μ
Dynamic Friction Coefficient (10bar, 10m/s):	0.45±0.05	μ
Wear Rate (10bar, 15m/s):	120±10	mm <sup>3</sup> /Kwh
T <sup>o</sup> Fading (10bar, 10m/s):	>350°C	°C

### Physical properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792-91):	1.8±0.05	gr/cm <sup>3</sup>
Thermal Conductivity (ASTM E1952-01):	0.44±0.01	W/m <sup>2</sup> K
Shear resistance (ISO 6312:2001):	22±2	N/mm <sup>2</sup>

### Mechanical properties

Tensile Strength (ASTM D638-10):	14±5	N/mm <sup>2</sup>
Compressive Strength (UNE 53205):	140±5	N/mm <sup>2</sup>
Poisson Coefficient:	0.27±0.03	
Young Modulus (ASTMD 638-10):	3896±100	N/mm <sup>2</sup>

### Recommended Working Values

T <sup>o</sup> Max. Continuous Operation:	250	°C
T <sup>o</sup> Max. Intermittent Operation:	350	°C

Material type : Rigid material

### Appearance / Formats



### Applications

Agricultural and building machinery - Callipers for industrial applications - Cones segments for machinery - Friction washers - Gear discs for industrial devices - Industrial clutches - Rings segments for machinery -

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

