

ID Material: 4  
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# 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:	see charts	
Wear Rate:	see charts	
T° Fading:	>350	°C

### Physical properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792):	1.8±0.05	gr/cm <sup>3</sup>
Thermal Conductivity (ASTM E1952):	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):	14±5	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	140±5	N/mm <sup>2</sup>
Poisson Coefficient (ASTM D638):	0.27±0.03	
Young Modulus (ASTM D638):	3896±100	N/mm <sup>2</sup>

### Recommended Working Values

T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	350	°C

Material type : Rigid material

### Appearance / Formats



Bonded Machined Rings Sheets

### 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

