

ID Material: C8  
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# SWR

SWR is an asbestos free composite woven from finely carded yarns containing brass wire. Its a dense, tough material which exhibits resistance to heat and compression under load.

## Material data

### Friction propieties (according graphics)

Static Friction Coefficient (15bar, from box):	0.55±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.50±0.05	μ
Dynamic Friction Coefficient (10bar, 10m/s):	0.50±0.05	μ
Dynamic Friction Coefficient (79N, 7m/s):	0.55±0.05	μ
Wear Rate (10bar, 15m/s):	130±10	mm <sup>3</sup> /Kwh
Wear Rate (79N, 7m/s):	200±10	mm <sup>3</sup> /Kwh
T° Fading (10bar, 10m/s):	>250°C	°C
T° Fading (100N, 11.5m/s):	288±10	°C

### Physical properties

Hardness (DIN53505):	65±5	Shore-D
Specific Gravity (ASTM D792-91):	1.61±0.05	gr/cm3

### Mechanical properties

Tensile Strength (ASTM D638-10):	246	N/mm <sup>2</sup>
Compressive Strength (UNE 53205):	63	N/mm <sup>2</sup>
Ultimate Shear Strenght (ASTM D732):	443	N/mm <sup>2</sup>

### Recommended Working Values

T° Max. Continuous Operation:	235	°C
T° Max. Intermittent Operation:	288	°C
Max. pressure:	14	Bar
Max. Rubbing Speed:	152	m/s

Material type : Flexible material

### Appearance / Formats



### Applications

Cones segments for machinery - Crane and excavator brakes and clutches  
- Drum Brakes - Heavy loaded Winches and Cranes - Machinery Marine industries -

Price Level : € € €

Reach (EC)1907/2006 - RoHS 2011/65/EU : Yes

### Others

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

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

