

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 Properties (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:	see charts	
Dynamic Friction Coefficient (79N, 7m/s):	0.55±0.05	μ
Wear Rate:	see charts	
Wear Rate (79N, 7m/s):	200	mm <sup>3</sup> /Kwh
T° Fading:	>250	°C
T° Fading (100N, 11.5m/s):	288±10	°C

### Physical properties

Hardness (DIN53505):	65±5	Shore-D
Specific Gravity (ASTM D792):	1.61±0.05	gr/cm <sup>3</sup>

### Mechanical properties

Tensile Strength (ASTM D638):	70±10	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	80±10	N/mm <sup>2</sup>
Ultimate Shear Strength (ASTM D732):	150±10	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)1907/2023 - RoHS 2015/863/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

