



IMA
MATERIALI DI ATTRITO
PER FRENI E FRIZIONI

SWR

Il materiale SWR è privo di amianto, intrecciato liberamente, composto da fibre finemente cardate e filo d'ottone. E' un materiale denso e duro, manifesta resistenza al calore e compressione quando è posto sotto carico. Non risente di piccole contaminazioni di olio e/o acqua e grasso. E' indicato per applicazione pesanti come argani, gru,navi, ecc.

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.

Dati Tecnici / Technical 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:	see charts	
Dynamic Friction Coefficient (79N, 7m/s):	0.55±0.05	μ
Wear Rate:	see charts	
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/cm3

Mechanical properties

Tensile Strength (ASTM D638):	246	N/mm ²
Compressive Strength (ISO 844:2014):	63	N/mm ²
Ultimate Shear Strenght (ASTM D732):	443	N/mm ²

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

Others

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



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

