

SCHMEES
defence



seculloy[®]

Cast armor steel for protection and mobility



Material sheet

Mechanical testing at RT	seculloy®	Hardness testing HBW 10/3000	Tensile test at room temperature			Impact test	
			R _{p0,2}	R _m	A ₅	KV	Temperature
	350c	325 - 390	≥ 780 MPa	≥ 930 MPa	≥ 10 %	27 J 20 J	RT -40°C
	400c	380 - 420	≥ 1050 MPa	≥ 1150 MPa	≥ 8 %	22 J 15 J	RT -40°C
	500c	> 470	≥ 1300 MPa	≥ 1500 MPa	≥ 5 %	20 J 15 J	RT -40°C
Nominal thickness	Approved for design nominal wall thickness ≤ 35 mm						
Physical quality	density (Kg/dm ³)	shrinkage (%)	Expansion data in 1/K * 10 ⁻⁶				Modulus of elasticity
			20-100 °C	20-300 °C	20-400 °C	20-500 °C	
	7,80	2,0	12,8	13,5	13,8	14,2	21000
Welding	Preheating		Filler Metal			Post weld heat treatment	
	-		Ferritic				
Quality specification	acc. to ES Norm						
	Surface roughness acc. to DIN 4762:		ceramic casting		Ra ≤ 12 µm		
			machine mould casting		Ra ≤ 20 µm		
			sand casting		Ra ≤ 25 µm		
Inspection acc. EN 10204							
Application	Cast steel for high-strength castings, machine building, protective systems, can be used as a low temp. steel						

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