DURMETAL® Coldwelding Repair® Systems®

Technical Specifications

Technical Data for DURMETAL® Standard

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	kp / cm^2	psi	bar	MNm^{-2}
Compression Strength	1’280	18’205	1’255	125
Flexural Strength	780	11’094	764	76
Tensile Strength	440	6’258	431	43
Adhesive Tensile Strength	175 - 250	2’489 - 3’555	171 - 245	17 - 24
Electrical Conductivity	6.2 x 10^{-3} Sm^{-1}		1.89 x 10^{-3} Siemens per ft	
Thermal Expansion	5.2 x 10^{-5} per °C		0.15 x 10^{-5} per °F	
Heat Resistance	300°C		572°F	
Curing Time (Standard)	2- 4 hrs, depending on material and temperature			
Hardness HB10	85			
Specific Gravity	2.7			
Mixing Ratio	1:1 by volume			
No electrolytic action, No contact corrosion, Does not pollute drinking Water.				

Technical Data for DURMETAL® Super CA-HD Rapid®

Technical Data for DURMETAL® Super CA-HD Rapid®				
	kp / cm^2	psi	bar	MNm^{-2}
Compression Strength	1’888	26’853	1’851	185
Flexural Strength	1’095	15’574	1’073	107
Tensile Strength	805	11’449	789	78
Adhesive Tensile Strength	183 - 268	2,602 - 3,811	179 - 262	17 - 26
Alu - Alu	218	3’100	213	21
Steel - Steel	194	2’759	190	19
Heat Resistance (short term)	350 °C		662 °F	
Heat Resistance (long term)	280 °C		536 °F	
Curing Time	3 -5 min, depending on material and temperature			
Hardness HB10	109			
Specific Gravity	2.9			
Mixing Ratio	1:1 by volume			
No electrolytic action, No contact corrosion, Does not pollute drinking Water.				

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