

OK Autrod 13.13

A copper-coated, low-alloy, chromium-nickel-molybdenum (0.5% Cr, 0.5% Ni, 0.2% Mo), solid wire for the GMAW of high tensile strength steels with a minimum yield strength (0.2% offset) of less than 610 MPa and a minimum tensile strength exceeding 710 MPa. Also suitable when welding steels where good impact strength at lower temperatures is required. OK Autrod 13.13 is usually welded with Ar/20CO2 as the shielding gas. The mechanical properties are given in the as welded condition. After stress relieving, the mechanical properties decrease by about 30 MPa in the case of yield and tensile strength. OK Autrod 13.13 in the unique ESAB Octagonal Marathon Pac[™] is excellent in mechanised welding applications.

Specifications	
Classifications	SFA/AWS A5.28 : ER100S-G
	EN 12534 : GMn3NiCrMo

Typical Tensile Properties					
Condition	Yield Strength	Tensile Strength	Elongation		
As Welded	690 MPa	770 MPa	20 %		

Typical Charpy V-Notch Properties					
Condition	Testing Temperature	Impact Value			
As Welded	0°C	L 08			
As Welded	-20 °C	75 J			
As Welded	-30 °C	65 J			
As Welded	-40 °C	60 J			
As Welded	-50 °C	50 J			
As Welded	-60 °C	50 J			

Deposition Data						
Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate		
1.2 mm	120-350 A	20-33 V	2.7-12.4 m/min	1.5-6.6 kg/h		
1.6 mm	225-480 A	26-38 V	3.5-12.0 m/min	3.3-11.6 kg/h		
0.8 mm	40-170 A	16-22 V	2.0-10.8 m/min	0.4-2.6 kg/h		
1 mm	80-280 A	18-28 V	2.7-14.7 m/min	1.0-5.4 kg/h		