Dual Core 81 R

Rutile **CORED/FCAW**

Standards

EN/ISO-Standard - 17632-A **AWS-Standard -** A5.29

EN/ISO-Classification - T 50 (46) 6 (4) 1Ni P M21 (C1) 1 H5 AWS-Classification - E81T1-Ni1M(C1)-J H4

- Seamless rutile flux cored wire suitable for applications where low temperature notch toughness is required.
- The wire has excellent weld puddle manipulation and superior out-ofposition weldability.
- Provides low spatter and an easy slag removal for single or multiple pass applications.
- Due to the seamless technology the typical diffusible hydrogen content is <3.0 ml 100 g.
- Extremely low hydrogen levels giving more resistance to cracking.
- Test certificates supplied as 3.1 which is actual weld chemistry + mechanicals according EN 10204:2004.
- Precision layer wound for superior wire feeding characteristics.
- Typically used on steel structures, pipelines, shipbuilding, non-alloy and fine grain steels, pressure vessels, offshore, mechanical engineering, heavy transport and general fabrication etc.
- Test Certificates can be found online @wilkinsonstar247.com





Optional
Plastic Alignment Hole Clip
Order Code: BS300-CLIP

Typical Base Materials

Steel type	EN
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Shipbuilding steels A, B, D, AH 32 - EH 36

Unalloyed structural steels S185 - S355, A 106 Gr.B, A 333 Gr. 6

Boiler steels P235GH - P485GH up to A516; A537, A455

Pipe steels P235T1/T2 - P485NL2; L210 - L485MB up to A 572

Fine grain steels S235 - S500 (NL1,2) up to A 572

Steel acc. API-standard X42 - X70

* Illustrative, not exhaustive list

Welding Positions

EN ISO 6947 - PA, PB, PC, PD, PE, PF, PG

Shielding Gases Polarity

EN ISO 14175 - C1, M21 DC (+)

Welding Parameters

Ø mm	1.00	1.20		
Current (A)	140-230	160-280		
Voltage (V)	19-25	21-29		

Mechanical Properties

Tensile Strength (N/mm²)	Yield Strength (N/mm²)	Elongation (%)	Impact Strength (J)	Test Temperature	
620	550	26	90	-40°C	
			60	-60°C	

Mechanical properties are approximate and may vary based on the heat, shielding gas, welding parameters and other factors.

Chemical Composition % (Typical)

C	6	Si %	Mn %	P %	S %	Cr %	Ni %	Mo %	Cu %a	AI %	V %	Ti %	Nb %
0.0	3	0.35	1.09	0.009	0.015	0.033	0.806	0.006	0.133	0.006	0.015	0.034	0.015

a (Includes copper coating)

Packaging Data

Part No.	Diameter Ø (mm)	Package Weight (Kg)	Package Type	Pallet Quantity
3010500353	1.20	16	BS300 PLW	64

Drums also available.

Liability: Whilst all reasonable efforts have been made to ensure the accuracy of the information contained, this information is subject to change without notice and can be only considered as suitable for general guidance.





