

Exaton 16.5.1

Exaton 16.5.1 is a filler material for joining EN 1.4418 and similar steels; it is also used for overlay welding. The weld metal has excellent resistance to cavitation and is used typically for shafts, propellers, pumps and valves in for example, hydro power generation. It is used for SAW welding paired with Exaton Flux 15W.

Specifications

Classifications	EN ISO 14343-A : S 16 5 1
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Alloy Type	Austenitic/Martensitic/Ferritic - 16% Cr - 5% Ni - 1% Mo - Low C
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Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
PWHT 4 hour(s) 590 °C	470 MPa	850 MPa	22 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
PWHT	20 °C	80 J

Typical Wire Composition %

C	Mn	Si	S	P	Ni	Cr	Mo	V	Al
0.01	1.4	0.3	0.009	0.015	5.5	16.2	1.0	0.04	0.006

Typical Wire Composition %

Cu	N	Nb	Ti	Co
0.01	0.02	0.01	0.01	0.03