



Exaton 22.12.HTR

Exaton 22.12.HTR is a covered electrode with rutile-acid coating. It gives a chromium-nickel weld metal that is scaling resistant in air up to 1150°C (2102°F). Spray transfer gives a bead with a finely rippled surface. There is little spatter and very good slag removal. Exaton 22.12.HTR is intended primarily for welding the high temperature steels Alleima 253MA (1) and Avesta 253MA, UNS S30815. It is also suitable for welding other high temperature steels, such as AISI 309 and EN 1.4828. The core wire used contains Ce. (1): 253MA is a trademark owned by Outokumpu Stainless.

Specifications				
Classifications EN ISO 3581-A : E Z 23 10 N R 12				
Approvals CE : EN 13479				
	UKCA : EN 13479			

Approvals are based on factory location. Please contact ESAB for more information.

Welding Current	AC, DC+
Ferrite Content	FN 4- 10
Alloy Туре	CrNi stainless
Coating Type	Rutile

Typical Tensile Properties						
Condition Yield Strength Tensile Strength Elongation						
ISO						
As Welded	540 MPa	720 MPa	35 %			

Typical Charpy V-Notch Properties					
Condition Testing Temperature Impact Value					
ISO					
As Welded	20 °C	55 J			

Typical Weld Metal Analysis %									
С	Mn	Si	S	Р	Ni	Cr	Мо	Cu	Ν
0.06	6	1.5	0.007	0.021	10.5	23	0.14	0.08	0.16

Typical Weld Metal Analysis %				
FN WRC-92	PREN			
6	25			

Deposition Data					
Diameter	Current	Voltage	Deposition Efficiency (%)	Fusion time per electrode at 90% I max	Deposition Rate @ 90% I max
2.5 x 300.0 mm	50-90 A	26 V	55 %	44 sec	0.8 kg/h
3.2 x 350.0 mm	70-110 A	25 V	55 %	66 sec	1.0 kg/h
4.0 x 350.0 mm	85-150 A	26 V	56 %	77 sec	1.3 kg/h