

## Shield-Bright 308H

FCAW wire for 18%Cr - 8%Ni stainless steel, For all-position welding. Shield-Bright 308H was developed for welding Type 304H stainless steel and can also be used for welding Type 301, 302, and 304 steels. It contains a higher carbon level than 308L filler metals to give greater high temperature strength. The ferrite content is also lower for high temperature service. It has greater ductility than 347 types at high temperatures and for that reason it is sometimes used to weld Types 321 and 347 for service above 750°F(399°C)coupled with high stress. Shield-Bright 308H was designed for welding in all positions and performs particularly well in the vertical position with excellent slag removal.

Specifications		
Classifications	SFA/AWS A5.22 : E308HT1-1	
	SFA/AWS A5.22 : E308HT1-4	
	JIS Z 3323 : YF 308C	
	KS D 3612 : YF 308C	
	EN ISO 17633-A : T 19 9 H P C1 2	
	EN ISO 17633-A : T 19 9 H P M21 2	
	JIS Z 3232 : TS308H-FB1	
Industry	Power Generation	
	Petrochemical	
	Industrial and General Fabrication	

Welding Current	DC+
Alloy Type	C Cr Ni
Shielding Gas	M21, C1 (EN ISO 14175)

Typical Tensile Properties					
Condition	Yield Strength	Tensile Strength	Elongation		
M21 Shielding Gas					
As Welded	430 MPa	600 MPa	42 %		
C1 Shielding Gas					
As Welded	392 MPa	578 MPa	44 %		

Typical Charpy V-Notch Properties					
Condition	Testing Temperature	Impact Value			
M21 Shielding Gas					
As Welded	-29 °C	50 J			
As Welded	-196 °C	28 J			
C1 Shielding Gas					
As Welded	-29 °C	47 J			
As Welded	-196 °C	26 J			

Typical Weld Metal Analysis %						
С	Mn	Si	S	Р	Ni	Cr
M21 Shielding Gas						
0.060	1.20	0.90	0.007	0.020	9.8	19.5
C1 Shielding Gas						
0.050	1.10	0.80	0.007	0.020	9.5	19.3

Deposition Data					
Diameter	Current	Voltage	Wire Feed Speed	Deposition Rate	
1.2 mm	130-220 A	24-29 V	5.8-14.4 m/min	1.9-4.6 kg/h	