

COREFIL 309MoLP

Flux cored wires [FCAW]

Stainless and high alloyed steels

CLASSIFICATION:	APPROVALS:	APPLICATION:
EN ISO 17633-A : T 23 12 3 LP C1(M21) 1 DIN 8556 : 23 12 2 AWS A-5.22 : E 309LMoT1-1/4 W.Nr. : 1.4459		Power generation industry Constructions & Engineering Petrochemical and chemical industry Shipbuilding&Offshore

- Rutile flux cored wire for joining 316 and 308 stainless steels with non-alloy construction steels and high-alloy ferritic steels.
- Especially recommended for high-performance welding in all positions.
- The weld deposit provides a high level of protection against hot cracking, even in the case of high thinning.
- For making buffer layers on unalloyed steels cladded with materials containing Mo.
- Very stable arc, self-removing slag.
- Produces a light joint with a very fine scale.
- Joint resistant to working temperature up to 1000°C.

Application

Furnaces (burners, doors, ventilators, piping, recuperators, grates, blower boxes), paper mill equipment, oil refining (catalytic recovery systems, recuperators), power industry (dust burners, pipe hangers), thermal treatment, waste incineration plants, rotary kilns, calciners, automotive exhaust system components, heat exchangers, glass blowing components, aircraft parts, boiler partitions, hearth linings, porcelain kiln baskets, annealing containers, inserts for chimneys operating in dry conditions.

Base material								
DIN		W.Nr.				AISI/ASME		
X2CrNiMo 17 12 2		1.4404				316L		
X2CrNiMo 18 14 3		1.4435				316L		
X2CrNiMoN 17 11 2		1.4406				316LN		
X2CrNiMoN 17 13 3		1.4429						
X4CrNiMo 17 13 3		1.4436						
X6CrNiMoTi 17 12 2		1.4571				316Ti		
X10CrNiMoTi 17 3		1.4573				316Ti		
X6CrNiMoNb 17 12 2		1.4580				316Cb		
X5 CrNiMo17 12 2		1.4401				316		
G-X10 CrNiMo18 9		1.4410						
G-X6 CrNiMo18 12	G-X6 CrNiMo18 12							
Dissimilar connections non-alloy and low-allo structural steels								
QT steels with each other or with other materials								
Non-alloy and low-alloy boiler or structural steels with Cr, CrNi, CrNiMo stainless steels								
Ferritic-austenitic con in boilers and pressur								
Typical chemical composition %								
• • • •	Mn Ci),75 22	r 2,50	Ni 12,80	Mo 2,30				

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Typical mechanical properties	250							
Yield strength Re [N/mm2]		> 350 (typ. 535)						
Tensile strength Rm [N/mm2	2] > 550	> 550 (typ. 695)						
Elongation A5 [%]	> 25	> 25 (typ.34)						
Impact energy Kv [J]	30 J (0	30 J (0°C) /						
Wire/rod type	rutile	rutile cored						
Flux type	rutile	rutile						
Ferrite content	22	22						
Welding current	=	+						
Welding positions		1						
Shielding gases acc. to EN IS 14175	50 C1 - 1	C1 - 100% CO2 / M21 - Ar + 15 - 25% CO2 /						
Remarks	are no respon	The material can be a substitute for Corefil 309LP, provided that the are no temperatures during use at which molybdenum eutectics responsible for hot cracks are formed, and that the welding process the weld metal with the addition of Mo is properly carried out.						
Welding parameters and packing								
Ø Welding [A]	current	Voltage [V]	Gas flow	Weight of packet [kg]				
1,2 150-300		24-33	20-25	15,0				
1,6 200-400		24-35	20-25	15,0				
METALWELD-FIPROM POLSKA spółka z o.o. ul. Mikołajczyka 57, 41-200 Sosnowiec +48 (32) 297 75 50 - 51								
+48 (32) 297 75 88								

export@metalweld.pl