



DAIKOFCW 308LP



AUSTENITIC STAINLESS STEELS
308L

DESCRIPTION

Rutile all position flux cored wire

Austenitic flux cored wire for welding and cladding 18/8 stainless steels in all positions thanks to the fast-freezing slag. It offers excellent weldability, easy handling and slag control in all positions resulting in high productivity with outstanding welding performance. Self-releasing slag requiring less cleaning and pickling, very low spatter formation and increased travel speeds allow to obtain noticeable savings in time and costs. Main applications include food industries, pharmaceutical equipment and general fabrication. Typical service temperatures are -100°C to 400°C.

SPECIFICATIONS

EN ISO 17633-A	TZ 19 9 L P C1/M21 1	AWS A5.22	E308LT1-1/4
Shielding	M21, C1	Positions	PA, PB, PC, PD, PE, PF, PG
Current	DC+	Packaging Type	B5300 spool

ASME QUALIFICATIONS

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F-No (QW432)	6	3-12 FN	19.83
A-No (QW442)	8		76HRB

CHEM. COMP. %

CHEM. COMP. %	DEFAULT	MECHANICAL PROPERTIES	MIN. PER STANDARD	PRODUCT
C	0.03	Tensile strength R _m MPa	510	520
Mn	1.3	Yield strength R _{p0.2} MPa	320	340
Ni	10	Elongation A (L ₀ =5d ₀) %	30	40
Cr	19,5	Impact Charpy ISO-V	-	50J @ -20°C
P	0.02	Impact Charpy ISO-V	-	-
S	0.02			
Mo	0.1			
Si	0.7			
Cu	0.1			
		WELDING PARAMETERS	1.2 mm	1.6 mm
		Ampere	120A - 280A	200A - 350A
		Voltage	22V - 30V	26V - 30V
		Packaging	Ø 1,2÷1,6mm	Ø 1,2÷1,6mm
		Packaging Type	B5300 spool	B5300 spool

NOTES

D200 spool and Ø 1,0 mm available upon request.



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APPLICATION

The 308L subfamily is specifically designed for the welding of 18/8 series stainless steels, including 301, 302, 303, and 304LN that contain nitrogen, as well as titanium-stabilized steels such as 321. The operating temperature range generally extends from -100°C to about 400°C. These consumables are ideal for a variety of applications ranging from the food sector to breweries, pharmaceutical equipment, construction and general building, to nuclear engineering. However, 308L products are not suitable for use with 304/304H steels in structural applications requiring high temperatures; for these needs, it is recommended to consult technical sheets C-10 and C-12. Similarly, for cryogenic applications (-196°C), it is advisable to refer to technical sheet B-37. No preheat is necessary and the maximum interpass temperature is set to 250°C; also, no post-weld heat treatment (PWHT) is required.

ALLOY TYPE

308L austenitic stainless steels for joining 304L base materials.

MICROSTRUCTURE

Austenite with a controlled level of ferrite, normally in the range 3-12FN depending on the application.

MATERIALS

EN W.Nr.: 1.4306 (X2CrNi19-11), 1.4301 (X5CrNi18-10), 1.4311 (X2CrNiN18-10), 1.4308 (X5CrNi19-10), 1.4541 (X6CrNiTi18-10), 1.4543 (X 3 CrNiCuTi 12-9), 1.4561 (X1CrNiMoTi18-13-2), 1.4550 (X6CrNiNb18-10)+

ASTM: 304L, 304, 304LN, CF3, CF8, 321, 347

UNS: S30403, S30400, S30453, S32100, S34700

WELDING & PWHT

Supply of welding consumables with optimized performance for strength and durability, including special alloys for high-temperature applications.

