

# Product Data Sheet



**BRAND NAME** VJ 2209  
**AWS/ASME Class** E 2209-16  
**SPECIFICATION** SFA A5.4

## Features and Applications :

VJ 2209 (22.5% Cr, 9.5% Ni, 3% Mo, 0.15% N) is ideal for welding duplex stainless steels like UNS S31803 and S32205. It offers high tensile strength, excellent resistance to pitting and stress corrosion cracking, especially in hydrogen sulfide and chloride environments. Post-weld annealing requires a higher temperature than the base metal. Suitable for pressure vessels, heat exchangers, pipelines, and nuclear equipment.

## CHEMICAL COMPOSITION :

All Weld Metal (%)			
TYPICAL	Max	TYPICAL	Max
C	0.04	Mn	0.50-2.0
Cr	21.50-23.50	Si	1.00
Ni	8.50-10.50	S	0.03
Mo	2.50-3.50	P	0.04
Cu	0.75	N	0.08-0.20

## MECHANICAL PROPERTIES OF WELD METAL

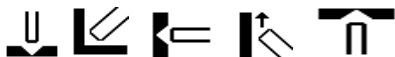
All Weld Metal - As Welded	
Properties	Typical
UTS (MPa)	690 Min
El (%)	20 Min

## DIMENSIONS & CURRENT DATA

Dimension (mm)	Current (A)		Packing (Pcs)
	Min	Max	Qty / Pkt
Dia x Length			
2.50 x 350	50	80	150
3.15 x 350	80	130	100
4.00 x 350	130	170	75
5.00 x 350	170	220	50

## CURRENT : AC/DC (+)

## WELDING POSITION:



## OTHER DATA:

**Redrying:** The electrodes should be redried at 250°C for 1 hour.  
Use short arc and stringer bead to get better weld quality