

## **EI 312RS**

Coated Electrode for Stainless Steels -

Standards	
AWS/ASME SFA - 5.4	E312-17
EN ISO 3581 - A	E 29 9 R 12
TS EN ISO 3580 - A	E 29 9 R 12
DIN M. No.	1.4337

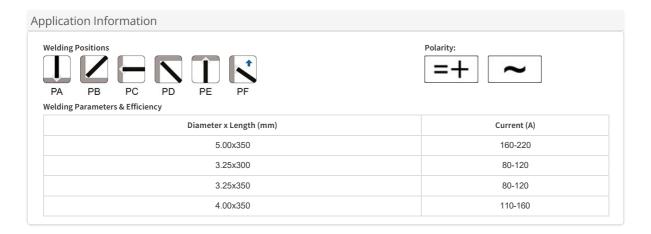
## **Properties and Applications**

Rutile type stainless steel electrode for joining dissimilar steels and depositing claddings on ferritic steels. The ferritic-austenitic Cr-Ni weld metal contains approximately 50% of delta-ferrite and is non-scaling up to 1100°C. It features high resistance to cracking and is therefore suited for joining difficult to weld steels and depositing stress-relaxing buffer layers on crack sensitive base metals. Especially used in crack repair and build-up of tool and die steels, rebuilding of worn or cracked gear teeth, buffer layer on cutting blades. Suitable for welding galvanized steel plates. Easy arc striking and re-striking. Fine metal droplet transfer, good fusion of joints faces, finely rippled flat and smooth bead surface, especially in fillet welds. Possible to use equally well both AC and DC. Easy slag removal of slag.

		Typical Chemical Values of Weld Metal					
Mn	Cr	Ni					
1.00	29.50	9.00					

## Typical Mechanical Values of Weld Metal

Test Condition	Yield Strength (N/mm²)	Tensile Strength (N/mm²)	Elongation A5 (%)	Charpy V-Notch Properties (J)	
As welded	660	760	20	$20^{\circ}\text{C} \rightarrow 50$	



Packaging Information						
Product Code	Diameter X Length (mm)	Pieces per Box (~)	Weight Of The Box (kg)	Boxes Per Package	Weight Of The Package	Packaging Type
13016MJEM2	3.25x300	58 kg	1.8	10	18.1	VAC Box
13016NJEM2	3.25x350	59 kg	2.0	10	0.0	VAC Box
13016QJEM2	4.00x350	39 kg	2.0	10	18.6	VAC Box



13016TJEM2	5.00x350	25 kg	2.0	10	18.6	VAC Box
Storage & Re-Drying Information						
It can be dried maximum 5 times. It has to be dried at 350°C for 2 hours.						