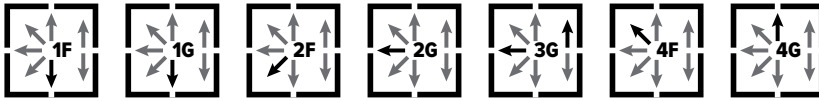


STAINLESS STEEL

HYPERARC 312L



Summary

HYPERARC 312L is a stainless steel electrode designed for welding dissimilar steels, providing a reliable solution for joining stainless steels to carbon and low-alloy steels. The electrodes produce a weld metal with excellent strength and high crack resistance, ensuring robust joints across diverse steel combinations. Suitable for applications requiring good resistance to wear and corrosion, 312L electrodes ensure a consistent arc and dependable performance.

Typical Applications

- Dissimilar metal weldments involving hard-to-weld steels
- Manganese steel to other steels
- Wear resistance applications
- Buffer layers prior to hard facing
- Joining and repairing tool steels

Classification

- AS/NZS 4854: B - ES312-16

Standards

- AWS A5.4 E312-16
- AWS/ASME SFA5.4: E312-16

Operating Polarity

- AC & DCEP

Operating Data

ELECTRODE SIZE	WELDING CURRENT RANGE
2.6mm	60A-80A
3.2mm	80A-120A

Typical Chemical Composition (%)

C	Mn	Si	P	S	Ni
0.080	1.040	0.820	0.017	0.020	9.080
Cr	Mo	V			
29.500	0.090	0.050			

Typical Mechanical Analysis

YIELD STRENGTH	655
TENSILE STRENGTH	750
ELONGATION	23

Packaging Info

SKU	ELECTRODE SIZE	WEIGHT	DESCRIPTION
U63017	2.6mm	1kg	HYPERARC 312L STAINLESS STEEL ELECTRODES 2.6MM 1KG
U63019	2.6mm	2kg	HYPERARC 312L STAINLESS STEEL ELECTRODES 2.6MM 2KG
U63018	3.2mm	1kg	HYPERARC 312L STAINLESS STEEL ELECTRODES 3.2MM 1KG
U63020	3.2mm	2kg	HYPERARC 312L STAINLESS STEEL ELECTRODES 3.2MM 2KG