

SUPERCORE 316LP



Supercore 316LP is recommended for welding Mo bearing austenitic stainless steels with 1.5 – 3% Mo. They are also suitable for Ti or Nb stabilised and nitrogen-bearing or free machining versions of the above alloys. Type 316/316L steels are widely used for their good resistance to pitting, many acids and general corrosion.

CLASSIFICATIONS

AWS	A5.22	E316LT1-4
BS EN	12073	T19 12 3 L P M 2

CHEMICAL ANALYSIS

% Carbon	0.030	% Chromium	19.00
% Manganese	1.300	% Nickel	12.00
% Silicon	0.500	% Molybdenum	2.700
% Sulphur	0.020	% Copper	0.100
% Phosphorous	0.020	Ferrite	8

**TYPICAL MECHANICAL PROPERTIES
ALL WELD METAL**

Tensile Strength	580 MPa
0.2% Proof Stress	440 MPa
Elongation on 4d	40%
Impact Energy 20°C	70 J
Impact Energy -110°C	40 J

Microstructure
Austenite with a controlled level of ferrite, normally in the range 2-10FN depending on the application.

PACKING DATA

(DC+)

Diameter (mm)	Current (A)		Stickout (mm)	Item Number	Pack Mass (Kg)
	Amps	Volts			
1.20	120 - 250	20 - 32	15 - 20	081-110	15

Suggested Shielding Gas: Fluxshield

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For more information contact the Afrox Customer Service Centre,
tel: 0860 020202 or e-mail: customer.service@afrox.boc.com
Website: www.afrox.com

