## PRODUCT DATA SHEET

# **ULTRAMET 904L**

Ultramet 904L gives a fully austenitic, low carbon weld metal with molybdenum and copper, with good resistance to corrosion in sulphuric, phosphoric and other inorganic and organic acids. They are not normally chosen for resistance to corrosion in concentrated nitric acid. For service in severe chloride pitting media, overmatching nickel-base weld metal is recommended. It is the preferred weld metal for some lower alloy austenitics



such as Creusot UHB 34L and UHB 734L for wet process phosphoric acid service. Applications include tanks and process vessels, piping systems, agitators and rotors and cast pumps and valves for use in the fertiliser, phosphoric, sulphuric environments. It is also used in some offshore applications, including overlays on mild and low alloy steels.

### **CLASSIFICATIONS**

AWS	A5.4	E385-16
BS EN	1600	E 20 25 5 Cu NL R 52
DIN	8556	E 20 25 5 L Cu R26

#### **CHEMICAL ANALYSIS**

0.025
2.000
0.400
0.005
0.020
21.00

% Nickel	25.00	
% Molybdenum	5.000	
% Copper	1.800	
% Noibium	0.100	
%Nitrogen	0.080	

# TYPICAL MECHANICAL PROPERTIES ALL WELD METAL

Tensile Strength	620 MPa
0.2% Proof Stress	420 MPa
Elongation on 4d	38%
Impact Energy at -196°C	50J

### **Microstructure**

In the as-welded condition the weld metal microstructure is fully austenitic.

### **PACKING DATA**

## (DC+or AC (OCV 70V Min)

Diameter (mm)	Current (A)	Item Number	Canned Pack Mass (Kg)
2.50	60 – 90	078-104	5
3.20	75 – 120	078-106	5
4.00	100 – 155	078-108	5

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