



Supplier of Welding Alloys

## Nickel Alloy TIG, MIG and SUB-ARC Wire

### Oxford Alloy® 55

**SPECIFICATIONS**

N/A

**CLASSIFICATIONS**

N/A

**DESCRIPTION / APPLICATION**

Oxford Alloy Nickel 55 is used for the welding of cast iron. This filler metal is extensively employed to overlay cast iron rolls. It is also used to repair castings. The weld metal of Oxford Alloy Nickel 55 is harder than that of Oxford Alloy Nickel 99. However, the machining can be accomplished by using carbide tipped tools. A preheat and interpass temperature of 350° (175°C) minimum is recommended during welding, without which the weld and heat affected zones could develop cracks.

Typical Chemical Composition						
C	Mn	Si	Fe	Ni		
0.05	0.25	0.15	43.6	55.9		

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 89,500 psi 620 MPa

Yield strength: 62,000 psi 430 MPa

Elongation: 35%

Please contact our sales department for more information at 800-562-3355 or 225-273-4800.

Data contained in this publication are typical of the products and properties described, but are not suitable for specifications.  
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