

# Blue Max® LNT 4462 N

AWS ER2209 • Stainless Steel

## Typical Applications

- ▶ Nuclear power plant construction and maintenance
- ▶ Alloy 2205: UNS S31803, UNS S31500
- ▶ Alloy 2304: UNS S32304, UNS S31200
- ▶ Air pollution control systems for coal fired power plants
- ▶ Power and process industry components and piping
- ▶ Pressure Vessels

## ASME IX Qualification

ASME IX Qualification: QW432 F-No 6,  
QW442 A-No 8

## Conformances

AWS A5.9/A5.9M: 2006: ER2209  
ASME SFA-A5.9: ER2209

## Welding Positions

All

## Key Features

- ▶ Q2 Lot® - Certificate showing actual wire composition and calculated ferrite number (FN) available online
- ▶ Available as Batch Managed Inventory
- ▶ “N” Designator - cobalt restriction of 0.05% max
- ▶ Premium performance and quality
- ▶ Designed for joining duplex stainless steels, such as type 2205, for applications with service temperatures up to 250°C (480°F) and down to -40°C (-40°F).
- ▶ Provides high resistance to general corrosion, pitting and stress corrosion
- ▶ Composition is controlled to produce consistent mechanical properties

## DIAMETERS / PACKAGING

Diameter in (mm)	10 lb (4.5 kg) Plastic Tube 30 lb (13.6 kg) Master
3/32 (2.4)	ED033957
1/8 (3.2)	ED033958

## MECHANICAL PROPERTIES<sup>(1)</sup> – As Required per AWS A5.9/A5.9M: 2006

	Yield Strength <sup>(2)</sup> MPa (ksi)	Tensile Strength MPa (ksi)	Elongation %	Charpy V-Notch J (ft•lbf)	
				@ -20°C (-4°F)	@ -60°C (-75°F)
Requirements - AWS ER2209			Not Specified		
Test Results <sup>(2)</sup> - As-Welded	600 (87)	800 (116)	28	60 (44)	45 (33)

## WIRE COMPOSITION<sup>(1)</sup> – As Required per AWS A5.9/A5.9M: 2006

	%C	%Cr	%Ni	%Mo	%Mn
Requirements - AWS ER2209	0.030 max.	21.5-23.5	7.5-9.5	2.5-3.5	0.5-2.0
Test Results <sup>(3)</sup>	0.018	22.7	8.5	3.0	1.5
	%Si	%P	%S	%Cu	%N
Requirements - AWS ER2209	0.90 max.	0.03 max.	0.03 max.	0.75 max.	0.08-0.20
Test Results <sup>(3)</sup>	0.50	0.03	0.03	0.30	0.15

### IMPORTANT: SPECIAL VENTILATION AND/OR EXHAUST REQUIRED

Fumes from the normal use of some welding products can contain significant quantities of components - such as chromium and manganese - which can lower the 5.0 mg/m<sup>3</sup> maximum exposure guideline for general welding fume. BEFORE USE, READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET (MSDS) FOR THIS PRODUCT AND SPECIFIC INFORMATION PRINTED ON THE PRODUCT CONTAINER.

<sup>(1)</sup>Typical all weld metal. <sup>(2)</sup>Measured with 0.2% offset. <sup>(3)</sup>See test results disclaimer on pg. 12.