410NiMo STAINLESS STEEL



KEY FEATURES

410NiMo stainless steel is known for its high strength and hardness as well as good resistance to atmospheric corrosion and mildly corrosive environments. Its high temperature oxidation and scaling resistance along with excellent wear resistance makes 410NiMo stainless steel ideal for applications such as: tool and die, turbomachinery, mining and minerals, power generation, petrochemical and more.

410NiMo stainless steel mechanical properties compare favorably to the following stainless steel grades:

ASTM A217, Grade CA15 ASTM A487, Grade CA15 ASTM A743, Grade CA15 ASTM A240, Grade 410 ASTM A276, Grade 410 ASTM A182, F6a Classes 3, 4

Typical Applications »

Tool and Die
Turbomachinery
Mining and Minerals
Power Generation
Petrochemical



NOMINAL MECHANICAL PROPERTIES

GMAAM ⁽¹⁾		Room Temperature Strength			Toughness	Hardness
Wire Feedstock	Heat Treatment ^[2]	YS @ 0.2% Off (ksi)	UTS (ksi)	Elong (%)	ft-lbs @ -20 °F	Rockwell C
410NiMo	None	130	160	< 10	-	40
	900 °F	130	160	13	-	40
	1100 °F	100	110	17	> 20	25

⁽¹⁾ Gas Metal Arc Additive Manufacturing (GMAAM)

The procedures Lincoln Electric uses to manufacture additive products comply with ASME BPVC Supplement 1 Code Case 3020: Qualification of Gas Metal Arc Additive Manufacturing (GMAAM) Procedures (Section IX).

Test Results

Test results for mechanical properties were obtained from GMAAM deposits produced and tested according to prescribed standards. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any GMAAM component before use in the intended application. This data is for illustrative purposes only. Actual results may vary.

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to the mby the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weld ment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter anywarranty on our products. Any expressor implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

⁽²⁾ Post-weld heat treatment: At temperature for 2 hours, furnace cool