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## Ldx 2101 datasheet

Print/Download PDF Trade Name LDX 2101®, Lean Duplex Standards EN Designation X2CrMnNiN22-5-2 Description 1.4162 is a chrome lean-duplex stainless steel with additional manganese, nickel, molybdenum and copper. Special properties Very good corrosion resistance. Good mechanical properties. Good durability. Good weldability. Chemical composition Litter properties 20°C 0.2% Plastic strength Rp ≥ N/mm² 4450 Central plastic strength Rm N/mm² > 650 Modulus elasticity N/mm² > 200 Tactile properties 20°C With specified heat output J/kg Conductivity of thermal conductivity W/m K 15 Lectric resistance MΩ/m 0.82 x welding materials CN 24/9 LDX PW-FD Chasus chemical industry, cellulose and cellulose, oil and gas industry Availability forms for 1.4162 / Sheets / Plates Bars Tubes/Pipes Fittings V2101MN (LDX2101®) is a low alloy duplex stainless steel, low nickel and nitrogen content, the correct balance of austenite/ferrite and, in general, there is no comparable corrosion resistance to other duplex grades, such as V225MN, due to the lower alloy content. This saves costs compared to typical duplex grades. In any case, the V2101MN (LDX2101®) has excellent resistance to chloride stress corrosion cracking and is less susceptible to creating intermetallic phases than other duplex and super-duplex grades. V2101MN (LDX2101®) is widely used, replacing most austenitic grades in buildings, bridges, construction work, reinforcing bars, architectural applications, reservoirs and water treatments. Decarbon argon oxygen Due to its chemical balance, the V2101MN (LDX2101®) offers high resistance to stress corrosion cracking, replacing type 304L in some environments, but has a critical corrosion temperature of pitting and crevices lower than other duplex grades such as V225MN. It should also be noted that for this grade, as with any type of stainless steel, surfaces should be free of impurities and weight, and belted for optimum corrosion resistance. V2101MN (LDX2101®) has a cold quenching capacity that is higher than V225MN and has cold forming properties as good as austenitic grades. To restore mechanical properties and corrosion resistance, high-speed cooling must be carried out. The V2101MN (LDX2101®) has very good machinability properties and is actually better than the V225MN. However, it is not as good as the MV274MDE. The V2101MN can be welded using the same techniques as austenitic stainless steels, but special care should be taken and appropriate options should be used. No preheating is required. Although this species has a high nitrogen content and is less susceptible to the formation of intermetallic phases, autogenous welding, without waiting after welding, can reduce corrosion resistance of welded parts. Over alloy fillers and improved avoid waiting after welding. Large shapes and ingots require proper preheating. Avoid overheating or reaching the upper limit of forging temperature. Both small pieces, rolled rings or rods can be or quickly extinguish after forging. However, high-speed cooling after any type of hot operation is mandatory for the best mechanical properties and corrosion resistance. Although V2101MN creates fewer intermetallic phases, it is recommended to avoid slow or abnormal cooling. Rate.