

Lastek 820 C

Laser welding

CLASSIFICATION

EN 10088-3 : X20Cr13
 --> : ~material number 1.4021

GENERAL DESCRIPTION

Lastek 820C is a martensitic chrome steel hardfacing alloy with good corrosion properties used for laser welding of parts with small tolerances. The deposit offers a good resistance to e.g. air water steam, freshwater, certain alkaline solutions and other mildly aggressive chemicals.

It shall not be used in marine or in chloride environment.

APPLICATIONS

Tools for medical purposes such as surgical and dental instruments.
 Surfacing of pump- and valve parts, shafts, spindles, shear blades.

Lastek 820C can reach a hardness of 55 HRC.

CHEMICAL COMPOSITION (%) (Typical values, all weld metal)

C : 0.16 - 0.25	Si : < 1.00	Mn : < 1.50	P : < 0.04	S : < 0.015
Cr : 12.00 - 14.00				

MECHANICAL PROPERTIES (Typical values, all weld metal)

Yield Strength N/mm ²	Tensile Strength N/mm ²	Elongation 5d (%)	Impact Strength Charpy V notch (ISO-V)			

GENERAL INFORMATION

Welding positions	PA					
Shielding gas	Argon					
Packing	1 kg in a cardboard box					
Polarity	NA					
Diameter (mm)	0.4	0.4	0.5	0.5	0.6	0.8
Length (mm)	500	1.000	500	1.000	500	500

Tips & tricks

The information in this document is based on intensive tests and is accurate to the best of our knowledge. Do note that these values are only typical values for tests in accordance to prescribed standards. The suitability of the product should always be confirmed by qualification tests before use in any application. The information can be changed without previous notice.