



# 1.4462/AISI 329/F51


**CONFIDENTIAL**

## CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr	Ni	N	Mo
0.03 max	1.00 max	2.00 max	0.035 max	0.015 max	21-23	4.50- 6.50	0.10- 0.22	2.50-3.50

## CHARACTERISTICS AND AREAS OF APPLICATION

Cr-Ni-N stainless steel resistant to pitting and stress corrosion.

Used for concrete reinforcement in highly chloride-affected environments such as marine environments or structures subject to de-icing salt spillage

## INDICATIVE MECHANICAL PROPERTIES

[ACCORDING TO EN10088-3 AT HARDENED STATE - ROOM TEMPERATURE]

Metallurgical condition	Rm [N/mm <sup>2</sup> ]	Rp 0.2 [N/mm <sup>2</sup> ]	A5 [%] min
Annealed	650-1000	450 min	15

## WELDABILITY

Normally not recommended for use in welded constructions as the thermally-altered zone shows a loss of toughness and corrosion resistance. In order to achieve the ideal mechanical and corrosion resistance after welding, it must in any case be solubilised.

## CORROSION RESISTANCE

Superior to austenitic Cr-Ni-Mo grades even in the presence of chlorides and especially when mechanical stress is added to corrosive conditions. Its corrosion resistance is highest at solubilised state. Must not be used at temperatures above 300°C.

## HEAT TREATMENT

**ANNEALING** > 1020-1080°C/water

[\*] The information on this sheet is of a general nature and reflects the contents of the technical regulations. For any specific request or clarification, please contact Eure inox Quality Department.