1.4570/AISI 303Kx

CONFIDENTIAL

CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr	Ni	N	Cu	Mo
0.08 max	1.00 max	2.00 max	0.045 max	0.15-0.35	17-19	8-10	0.10 max	1.40-1.80	0.60 max

CHARACTERISTICS AND AREAS OF APPLICATION

Austenitic Cr-Ni stainless steel.
It possesses mechanical properties similar to those of 1.4305 but the addition of Cu improves its corrosion resistance and processing features in chip removal machinery.

INDICATIVE MECHANICAL PROPERTIES

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

Metallurgical condition	Rm [N/mm2]	Rp 0.2 [N/mm2]	A5 [%] min
Annealed	500-910	185 min	20

WELDABILITY

This steel grade is not normally used for applications requiring welding.

CORROSION RESISTANCE

The addition of Cu significantly improves corrosion resistance and reduces the negative effect of sulphur.
The corrosion resistance of 1.4570 is better compared to that of 1.4305 and comparable to 1.4301/1.4307.

HEAT TREATMENT

ANNEALING › 1050-1100°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.