



1.4028/AISI 420

CONFIDENTIAL

CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr
0.26-0.35	1.00 max	1.50 max	0.040 max	0.030 max	12-14

CHARACTERISTICS AND AREAS OF APPLICATION

Martensitic stainless steel, hardenable and resistant to corrosion and heat. It is characterised by improved processing features in chip removal machinery.

Used for cutlery, surgical and dental instruments, springs, plastic moulds, pump shafts, valve parts, hand tools, flanges and fittings.

INDICATIVE MECHANICAL PROPERTIES

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

Metallurgical condition	Rm [N/mm ²]	Rp 0.2 [N/mm ²]	A5 [%] min	Indic. hardness [HB] max
Annealed	≤ 900	-	-	280
Quenched QT850	850-1100	650 min	9	-

WELDABILITY

Preheating at 200-250°C and annealing at 700-750°C for 6-8 hours immediately after welding followed by air cooling is necessary.

CORROSION RESISTANCE

Corrosion resistance of this steel grade is best at hardened and stress-relieved state at low temperature, with mirror-polished surfaces.

HEAT TREATMENT

- ANNEALING** > 750-800°C/slow cooling
- HARDENING** > 950-1000°C/oil-air
- TEMPERING** > 600-650°C/air

[*] 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.