1.4034/AISI 420

CONFIDENTIAL

CHEMICAL COMPOSITION [% weight]

C	Si	Mn	P	S	Cr
0.43-0.50	1.00 max	1.00 max	0.040 max	0.030 max	12.5-14.5

CHARACTERISTICS AND AREAS OF APPLICATION

Corrosion and heat-resistant martensitic stainless steel with improved processing features in chip removal machinery.
Used for quality cutlery, surgical instruments, plastic moulds, wear parts, pump parts, diesel engine pumps, regulators and controls.

INDICATIVE MECHANICAL PROPERTIES

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

Metallurgical condition	Rm [N/mm2]	Rp 0.2 [N/mm2]	A5 [%] min	Indic. hardness [HB] max
Annealed	≤ 900	-	-	280
Quenched QT850	850-1100	650 min	8	-

WELDABILITY

Normally not used in processes involving welding.

CORROSION RESISTANCE

Among the martensitic grades (as 1.4028) it has the best corrosion resistance when hardened and stretched at low temperature, with mirror-polished surfaces. Its corrosion resistance is slightly lower compared to that of 1.4006 thus requiring more frequent cleaning.

HEAT TREATMENT

ANNEALING › 750-800°C/slow cooling
HARDENING › 980-1030°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.