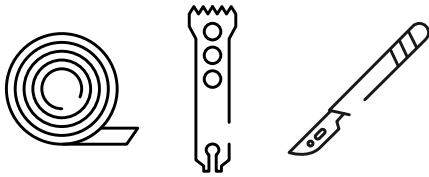


1.4028, X30Cr13, AISI 420B

Surgical Instruments, Data Sheet US



Zapp is certified to ISO 9001



The Alloy X30Cr13 from Zapp – Surgical Instrument Material for Medical Technology Zapp® 1.4028 MO

Finish

1.4028 MO, X30Cr13, AISI 420B according to standard ASTM F899, UNS 42020 is cold rolled, hardened and tempered

Edge Finish

Slit

Surface Finish

Polished

Rt ≤ 59.05 µin

Ra ≤ 9.84 µin

Dimensions

Thickness: 0.039 to 0.059 in

Width: 0.157 to 11.811 in

Flatness

Permissible deviation transverse to direction of rolling:

Thickness ≥ 0.0079 in: max. 0.2 % of the strip's width

Thickness < 0.0079 in: max. 0.3 % of the strip's width

Tensile Strength

Thickness ≤ 0.039 in: 246.5 – 275.5 ksi

Thickness > 0.030 in: 232.1 – 261.0 ksi

Forms of Delivery

Coils

- Inside diameter: 11.81/ 15.75 in
- Outside diameter: max. 39.37 in

Sheets

- Lengths on request

Standards

- ASTM F899
- Grade UNS42020

In case of necessary deviations from the properties mentioned above please send us your inquiry.

Approximately Chemical Analysis (%)

C	Mn	Si	P	S	Cr	Mo	Ni
0.36	0.45	0.40	max. 0.030	max. 0.005	13.50	1.00	0.35

Tolerances

Width tolerances in inches (in)

Thickness (in)	Width (in)	Tolerances (in) ±
< 0.0098	< 0.787	0.0028
	0.787 - < 1.968	0.0039
	1.968 - < 4.921	0.0059
	4.921 - < 9.842	0.0079
	9.842 - < 15.748	0.0118
0.0098 - < 0.0197	< 0.787	0.0039
	0.787 - < 1.968	0.0059
	1.968 - < 4.921	0.0079
	4.921 - < 9.842	0.0098
	9.842 - < 15.748	0.0138
0.0197 - < 0.0394	< 0.787	0.0059
	0.787 - < 1.968	0.0079
	1.968 - < 4.921	0.0098
	4.921 - < 9.842	0.0118
	9.842 - < 15.748	0.0157
0.0394 - < 0.0590	< 0.787	0.0079
	0.787 - < 1.968	0.0098
	1.968 - < 4.921	0.0118
	4.921 - < 9.842	0.0138
	9.842 - < 15.748	0.0177

Thickness tolerances in inches (in)*

Thickness (in)	Tolerances (in) ±
0.0039 to < 0.0049	0.00016
0.0049 to < 0.0079	0.00020
0.0079 to < 0.0098	0.00024
0.0098 to < 0.0124	0.00028
0.0124 to < 0.0157	0.00032
0.0157 to < 0.0197	0.00035
0.0197 to < 0.0248	0.00039
0.0248 to < 0.0315	0.00047
0.0315 to < 0.0394	0.00051
0.0394 to < 0.0492	0.00067
0.0492 to 0.0591	0.00079

* closer tolerances on request

[Information about further medical applications at Zapp.](#)

Straightness

Width (in)	Tolerance max. (in/39.37 in)
< 0.787	0.0787
0.787 - < 1.968	0.0590
1.968 - < 4.921	0.0492
> 4.921	0.0394

[Information about further materials for medical steel at Zapp.](#)

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Further information regarding our products and locations are available in our image brochure and under www.zapp.com

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Last revision: June 2026