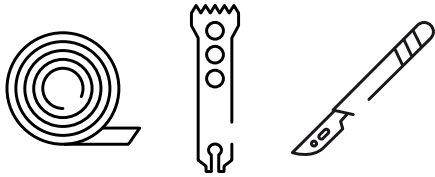


Zapp® 1.4028 MO, X30Cr13, AISI 420B

Surgical Instruments - Data Sheet



Zapp is certified to 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

$R_t \leq 1.50 \mu\text{m}$

$R_a \leq 0.25 \mu\text{m}$

Dimensions

Thickness: 0.10 to 1.50 mm

Width: 4 to 300 mm

Flatness

Permissible deviation transverse to direction of rolling:

Thickness ≥ 0.20 mm: max. 0.2 % of the strip's width

Thickness < 0.20 mm: max. 0.3 % of the strip's width

Tensile Strength

Thickness ≤ 1.00 mm: 1,700 – 1,900 MPa

Thickness > 1.00 mm: 1,600 – 1,800 MPa

Form of Delivery

Coils

- Inside diameter: 300/ 400 mm
- Outside diameter: max. 1,000 mm

Sheets

- Length 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.

Tolerances

Width tolerances in mm

Thickness (mm)	Width (mm)	Tolerances (mm) $\pm$
< 0.250	< 20	0.07
	20 to < 50	0.10
	50 to < 125	0.15
	125 to < 250	0.20
	250 to 300	0.30
0.250 to < 0.500	< 20	0.10
	20 to < 50	0.15
	50 to < 125	0.20
	125 to < 250	0.25
	250 to 300	0.35
0.500 to < 1,000	< 20	0.15
	20 to < 50	0.20
	50 to < 125	0.25
	125 to < 250	0.30
	250 to 300	0.40
1,000 to < 1,600	< 20	0.20
	20 to < 50	0.25
	50 to < 125	0.30
	125 to < 250	0.35
	250 to 300	0.45

Thickness tolerances in mm*

Thickness (mm)	Tolerances (mm) $\pm$
0.100 to < 0.125	0.004
0.125 to < 0.200	0.005
0.200 to < 0.250	0.006
0.250 to < 0.315	0.007
0.315 to < 0.400	0.008
0.400 to < 0.500	0.009
0.500 to < 0.630	0.010
0.630 to < 0.800	0.012
0.800 to < 1,000	0.013
1,000 to < 1,250	0.017
1,250 to < 1,600	0.020

* closer tolerances on request

Straightness

Width (mm)	Tolerance max. (mm/m)
< 20	2.00
20 to < 50	1.50
50 to < 125	1.25
> 125	1.00

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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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