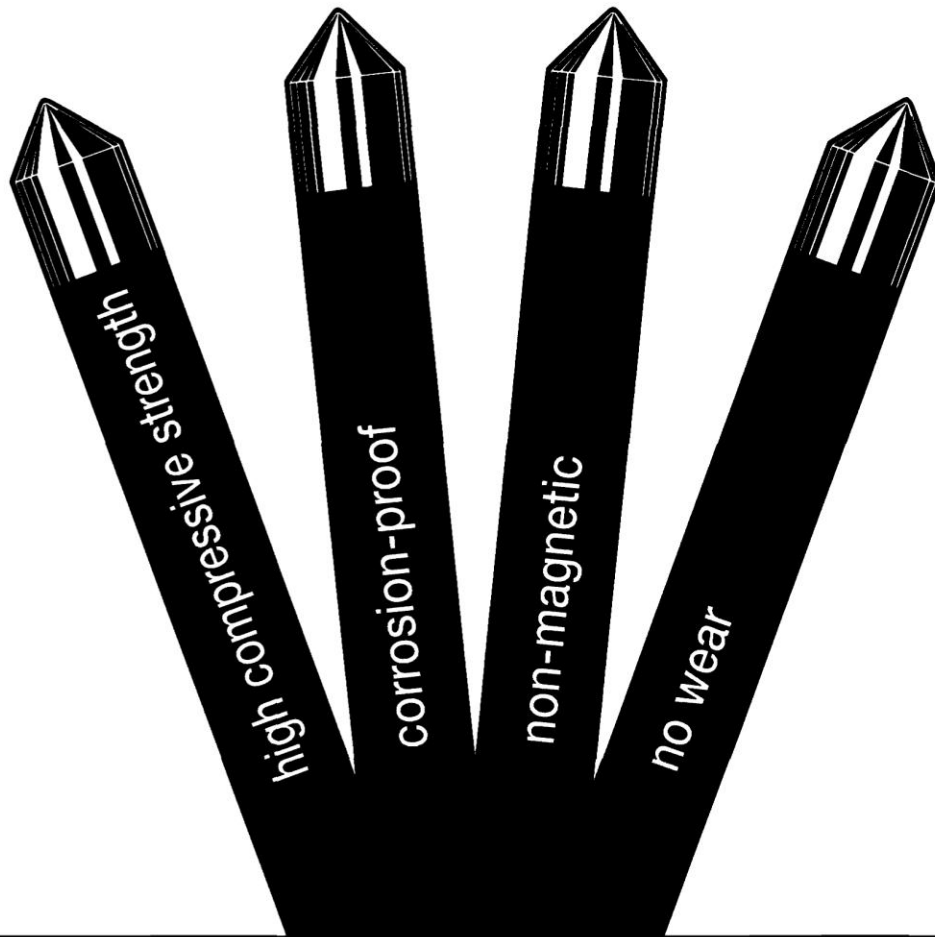


# corepoint<sup>®</sup> pivots



FOR HIGH PRECISION  
INSTRUMENT BEARINGS  
AND ALL HIGH CLASS  
ENGINEERING APPLIANCES  
IN SWISS QUALITY

# corepoint<sup>®</sup> pivots

## Composition

Co, Ni, Cr, Fe, W, Mo as main elements  
with Ti, Mn, Be, Si and C as admixtures (additions)

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## Elastic Properties

Moduls of Elasticity	215 000 - 230 000 N/mm <sup>2</sup>	30,5 x 10 <sup>6</sup> - 32,7 x 10 <sup>6</sup> PSI
Moduls of Shear	80 000 N/mm <sup>2</sup>	11,4 x 10 <sup>6</sup> PSI
Elastic Limit	1 800 - 2 200 N/mm <sup>2</sup>	255 000 - 312 000 PSI
Tensile Strength	2 000 - 2 500 N/mm <sup>2</sup>	326 000 - 355 000 PSI

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## Physical Properties

Hardness max.	770 - 820	Vickers
Specific Gravity	8,2	g/cm <sup>3</sup>
Specific Resistance	1,0 x 10 <sup>-4</sup>	Ω cm
Temperature Coefficient of Resistance	0,23 x 10 <sup>-3</sup>	per °C
Linear Expansion	13 x 10 <sup>-6</sup>	per °C
Magnetic Permeability	1.001	
The Corepoint strengths are almost constant in the temperature range	- 58° F to 842° F (- 50° C to 450° C)	

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## Corrosion Stability

Corrosion proof against all acids. Except moderate to high corrosion by aqua regia (HCL+HNO<sub>3</sub>) 3:1, hydrofluoric acid (HF), caustic hydrate of soda (NAOH) and caustic potash (KHO) to 370° C, sulphuric above 50% over 60° C, bromine.

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## Welding and brazing

Use Castolin 197 with binder 159 A for brazing. For an absolutely corrosionresistant brazed joint precious metal brazing solders with melting points around 1100° C will give best results.

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## Dimensions

Corepoint-parts are being manufactured up to a maximum diameter of 1,5 mm (.059").