

**PRODUCT OVERVIEW**

POLYSTEL 12H is a high carbon cobalt based cast rod version of Cobalt Alloy 12 that has been hot forged to a small diameter wire using Polymet’s patented hot extruded wire processing. POLYSTEL 12H attributes are its anti-galling properties and increased abrasion resistance while maintaining similar properties to those of Cobalt Alloy 12. It can be applied to all weldable steels, including stainless steels.

**APPLICATION**

Typical applications include shaft sleeves, turbine blades, saw blades, and knives.



**POLYSTEL 12H CHEMISTRY, PERFORMANCE, AND SPECIFICATIONS**

Material Chemistry (wt%)

Co	C	Cr	W
BAL	1.9	29.0	9.0

**Properties**

⇒ Hardness: 45-50 HRC

**RECOMMENDED WELDING PARAMETERS**

Diameter	Current	Voltage	Amperage	Gas	Tip Size/Flame
.062" (1.6mm)	DCEN	20-24	80-100	Argon	N/A

Standard Sizes Available

.035" (0.89mm), .045" (1.2mm), .062" (1.6mm), .080" (2.03mm)

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