

PRODUCT OVERVIEW

PolyStel 6 —a cobalt-based metal-cored wire, is widely considered the principal cobalt alloy in terms of versatility and resistance to many forms of mechanical and chemical deterioration over an extensive temperature range. PolyStel 6 attributes its outstanding self-mated anti-galling properties to the high alloy content of the matrix namely the chromium carbides contained in the deposit. Popular applications for this alloy include hardfacing applications when wear is complemented by corrosion and/or elevated temperatures such as valve seats and bearing areas. This alloy can be applied to any weldable steel, including all grades of stainless steel.

TYPICAL DEPOSIT CHARACTERISTICS

○ Abrasion Resistance	Good
○ Impact Resistance	Good
○ Corrosion Resistance	Good
○ Deposit Layers	2 maximum
○ Deposit Cross-checks	*No
○ Magnetic	No
○ Hot Wear Hardness	Good
○ Machineability	Carbide Tools

*With proper preheat & slow cooling

SPECIFICATION

AWS A5.21 ERCCoCr-A



APPLICATIONS

- Valve seats
- Bearing areas
- Extrusion screw flights
- Tong bits

NOMINAL CHEMICAL COMPOSITION

This alloy conforms to AWS A5.21 ERCCoCr-A chemical composition requirements

RECOMMENDED WELDING PARAMETERS

* Parameters are typical and may vary depending on equipment used. Contact your equipment manufacturer for optimum weld parameters.

STANDARD SIZES & PACKAGING

Diameter	Packaging	Part Number
.045" (1.2mm)	33 lbs LWS	006M045LWS01
.062" (1.6mm)	33 lbs LWS	006M062LWS01