

#### **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

0	Abrasion Resistance	Good
0	Impact Resistance	Good
0	Corrosion Resistance	Good

O Deposit Layers 2 maximum

Deposit Cross-checksMagneticHot Wear HardnessSood

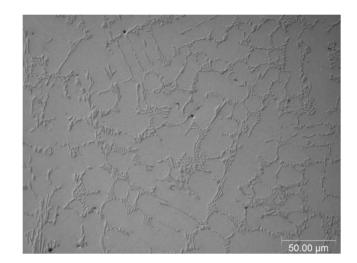
Machineability Carbide Tools

#### **APPLICATIONS**

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

#### **SPECIFICATION**

AWS A5.21 ERCCoCr-A



## NOMINAL CHEMICAL COMPOSITION

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

### RECOMMENDED WELDING PARAMETERS

# **STANDARD SIZES & PACKAGING**

 Diameter
 Packaging
 Part Number

 .045" (1.2mm)
 33 lbs LWS
 006M045LWS01

 .062" (1.6mm)
 33 lbs LWS
 006M062LWS01

<sup>\*</sup>With proper preheat & slow cooling

<sup>\*</sup> Parameters are typical and may vary depending on equipment used. Contact your equipment manufacturer for optimum weld parameters.