

Dual Core COBALT 1-G

Cobalt CORED/MCAW

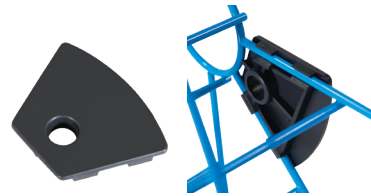
Standards

EN/ISO-Standard - 14700
EN/ISO-Classification - T Co3

AWS-Standard - A5.21
AWS-Classification - ERCCoCr-C

Features and Applications

- Cobalt base tubular wire for gas-shielded metal arc hardfacing.
- Exceptional resistance in corrosive media at high temperatures.
- Ideal for hardfacing parts undergoing the single or combined effects of heavy metal-to-metal wear or abrasion, temperatures ranging from RT to 800°C and corrosive environments.
- Precision layer wound for superior wire feeding characteristics.
- Typically used on steam valves, wire guides, rubber and plastic mixers, extrusion screws, conveyors etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Optional Plastic Alignment Hole Clip
Order Code: BS300-CLIP

Welding Positions

EN ISO 6947 - PA, PB, PC, PD, PE, PF, PG

Shielding Gases

EN ISO 14175 - I1 (Argon)

Wear Type Suitability

Abrasion	██████████	██████████	██████████	██████████
Impact	██████████	██████████	██████████	██████████
Metal-Metal	██████████	██████████	██████████	██████████
Corrosion	██████████	██████████	██████████	██████████
Temperature	██████████	██████████	██████████	██████████

Welding Parameters

Ø mm	1.20	1.60
Current (A)	100-250	140-350
Voltage (V)	16-29	16-30

Hardness (HRC)

Current Type	Hardness - Third Layer
DC+ / Pulsed	53

Mechanical properties are approximate and may range based on the heat, shielding gas, welding parameters and other factors.

High Temperature Hardness

20°C	200°C	400°C	600°C	800°C
560 Hb	540 Hb	480 Hb	400 Hb	220 Hb

High deposition rates and low dilution are facilitated by pulsed current. High heat inputs favour lower hardness.

Chemical Composition % (Typical)

C %	Mn %	Si %	Cr %	W %	Fe %	Co %
2.30	1.00	1.00	29.0	12.0	4.00	Bal.

Structure is chromium and tungsten carbides in an austenitic type matrix

Packaging Data

Part No.	Diameter Ø (mm)	Package Weight (Kg)	Package Type	Pallet Quantity
6031100362	1.20	15	BS300 PLW	72
6031100365	1.60	15	BS300 PLW	72

Liability: Whilst all reasonable efforts have been made to ensure the accuracy of the information contained, this information is subject to change without notice and can be only considered as suitable for general guidance.

