

Technical data sheet <small>EN160924GB</small>	Cored welding Wire HARDFACE 55WCo-G	 Welding Alloys
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CLASSIFICATION

EN 14700: T Z Fe3

DESCRIPTION

- Cored wire for gas shielded arc welding
- Fully compatible with AISI H19 hot work tool steel
- The high content of tungsten, cobalt, vanadium and chromium makes this wire highly resistant to high temperature wear
- This weld metal provides excellent hot hardness combined with abrasion resistance

APPLICATIONS

HARDFACE 55WCo-G is used for rebuilding shallow press dies, hot punches, trim dies, ect.

TYPICAL ALL-WELD METAL ANALYSIS

C	Mn	Si	Cr	Mo	V	W	Co	Fe
0.40	0.35	0.3	4.5	0.5	2.0	4.3	4.3	Bal.

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Hardness:

As welded, 3-layer on mild steel: 55 - 60 HRC

Tensile:

Ultimate Tensile Strength: 1850 MPa

CONDITIONS OF USE

Current type	Gas-shielding
DC (+)	M21: Ar + 15 - 25 % CO ₂
	M20: Ar + 5 - 15% CO ₂
	M12: Ar + 2 - 5 % CO ₂
	C1: CO ₂

OPERATING CONDITIONS

Diameter [mm]	Amperage [A]		Voltage [V]		Stick-out [mm]	
	Range	Optimum	Range	Optimum	Range	Optimum
1.2	100 - 300	220	20 - 30	26	15 - 25	20
1.6	150 - 350	270	25 - 35	27	20 - 30	25
2.0	200 - 400	300	25 - 35	28	20 - 30	25
2.4	250 - 450	350	25 - 35	28	20 - 30	25

Recovery: 95 %

WELDING POSITIONS

Flat

PACKAGING

Diameter	1.2 - 2.4 mm	2.4 mm	
Standard packaging (EN ISO 544)	BS 300 spool	B 450 coil	Drum
Weight	15 kg	25 kg	Up to 330 kg

Other packaging: please consult us

Welding products and techniques evolve constantly. All descriptions, illustrations and properties given in this data sheet are subject to change without notice and can only be considered as suitable for general guidance. This document is intended to help the user make the correct choice of product. It is his responsibility to assess its suitability for his intended application.