



SelectWear 58

Description

SelectWear 58 is an iron based, martensitic alloy designed as a general purpose hardfacing wire. It offers high hardness (Rc56-60) with a good balance between abrasion and impact resistance. SelectWear 58 is an excellent choice for components that are required to maintain a sharp edge. SelectWear 58-MCG is widely used in hard band applications. The deposit is magnetic, will not cross check and is not readily machinable. SelectWear 58GV is a gas shielded, all position, flux cored wire version of this product.

Alloy Group

Martensitic Tool Steel

Applications

Designed for metal-to-earth wear resistance: Debarking knives, agricultural tillage, chisel plows, dredge components, earthmoving bucket lips, extruder screws and hard banding applications

Deposit Properties

- Chemistry: Fe-Cr-Mo-V-C
- Hardness (2 layers): Rc56-60
- Not machinable, grinding only
- Will not cross crack

Recommended Weld Parameters

58-FCO - Open arc, flux cored wire

Diameter	Polarity	Current (amps)	Voltage	ESO
.045"	DCRP	150-225	23-28	1/2"-1"
1/16"	DCRP	200-300	22-26	3/4"-1 1/4"
5/64"	DCRP	250-375	27-31	3/4"-1 1/4"
7/64"	DCRP	350-500	26-31	1 1/4"-1 3/4"
1/8"	DCRP	400-550	27-32	1 1/4"-1 3/4"

58-MCG - Gas shielded, metal cored wire (Ar-2% O₂ or Ar-CO₂ mixtures)

.035"	DCRP	150-240	25-33	1/2"-3/4"
.045"	DCRP	180-300	27-33	1/2"-1"
1/16"	DCRP	240-450	26-35	3/4"-1 1/4"
7/64"	DCRP	350-500	27-35	1 1/4"-1 3/4"
1/8"	DCRP	400-650	29-36	1 1/4"-1 3/4"

Note: Listed parameters are for Ar-25% CO₂ shielding. Lower voltage for higher argon levels.

58GV-FCG - Gas shielded, all position flux cored wire (CO₂ or Ar-25% CO₂)

Diameter	Polarity	Current (amps)	Voltage	Optimum all-position	ESO
.045"	DCRP	150-300	24-29	190A, 26V	1/2"-1"
1/16"	DCRP	180-350	26-30	210A, 26V	3/4"-1 1/4"

Note: Listed parameters are for CO₂ shielding. Lower by one volt for Ar-25% CO₂.

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Notice: The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for use in the field.