



Manufacturers of Custom Welding Lines for Resale
www.selectrode.com

SELECTRODE 1151 Black 6013 Mild Steel

INTERNATIONAL CLASSIFICATIONS

AWS/ASME A 5.1 E 6013
DIN 1913: E 5122 R C 3
NFA 81-309: E 512/2 R 12

EN 499: E 420 RC 11
ISO 2560 E 51.2RR22
BS 619: E 5122 R 12

FEATURES & APPLICATIONS

A versatile all around repair and fabrication of clean, well fitting common mild steel components. A fast freeze slag characteristic ensures fully positional operability.

Universal all position mild steel electrode available in a variety of colors

- Only mild steel electrode offering the convenience of flat, vertical up and down, and overhead without changing amperage setting.
- Electrode can be bent without flux breakage.
- Contact (drag) type transfer allows the electrode to weld by itself.
- Also available as a torch fusion alloy as item #2161, a TIG alloy as item #6006, a solid MIG alloy as item #7070 and a flux cored MIG alloy as item #7160 and a gasless flux covered MIG alloy as item #7166.

ALL WELD METAL ANALYSIS (TYPICAL WEIGHT %)

Flux Color: Black

C	Mn	V	Si	Mo	S	Ni	P	Cr	Fe
.08	.5	.08	.2	.30	.01	.30	.02	.20	Bal.

TYPICAL MECHANICAL PROPERTIES

Undiluted Weld Metal	Maximum Value Up to:
Tensile Strength	83,000 psi (600 MPa)
Yield Strength	75,000 psi (540 MPa)
Elongation	25%
Impact Energy	90J: -4°F (-20°C)

WELDING CURRENT & INSTRUCTIONS

Recommended Current: DC Straight (-), Reverse (+) or AC

Diameter (mm)	1/16 (1.6)*	5/64 (2.0)*	3/32 (2.5)	1/8 (3.25)	5/32 (4.0)	3/16 (5.0)*
Minimum Amperage	20	30	50	70	115	150
Maximum Amperage	40	50	70	110	140	200

Welding Techniques: Hold a short to medium arc length, lean electrode 45° towards the direction of travel. Use either the stringer or weave technique.

Welding Positions: Flat, vertical up, vertical down, horizontal, overhead

Deposition Rates:

Diameter (mm)	Length (mm)	Weldmetal/ Electrode	Electrodes per lb (kg) of Weldmetal	Arc Time of Deposition min/lb (kg)	Amperage Settings
1/16 (1.6)*	12" (300)	.11oz (3g)	145 (320)	57 (125)	30
5/64 (2.0)*	12" (300)	.14oz (4g)	114 (251)	47 (103)	40
3/32 (2.5)	14" (350)	.30oz (8g)	53 (117)	36 (79)	60
1/8 (3.2)	14" (350)	.62oz (17g)	26 (57)	25 (55)	90
5/32 (4.0)	14" (350)	1oz (28g)	16 (35)	20 (44)	125
3/16 (5.0)*	14" (350)	1.5oz (42g)	11 (23)	14 (31)	175

APPROXIMATE ELECTRODE PACKAGING & DIMENSIONS

Diameter (mm)	1/16 (1.6)*	5/64 (2.0)*	3/32 (2.5)	1/8 (3.25)	5/32 (4.0)	3/16 (5.0)*
Length (mm)	12" (300)	12" (300)	14" (350)	14" (350)	14" (350)	14" (350)
Electrodes / lb	60	42	25	15	10	7
Electrodes / kg	132	92	55	33	22	15

* Only stocked in certain colors