

## Quick Reference Series

### Air Carbon-Arc Electrodes: Inches of Groove Per Electrode

<b>POINTED CCDC COPPERCLAD ELECTRODES</b>						
<b>Groove Depth</b>	<b>5/32" x 12" 4.0mm x 30.5cm</b>	<b>3/16" x 12" 4.8mm x 30.5cm</b>	<b>1/4" x 12" 6.5mm x 30.5cm</b>	<b>5/16" x 12" 8.0mm x 30.5cm</b>	<b>3/8" x 12" 9.5mm x 30.5cm</b>	<b>1/2" x 14" 4.0mm x 35.6cm</b>
1/8" (3.2mm)	65" (165cm)	70" (178cm)	81" (206cm)	NR	NR	NR
5/32" (4.0mm)	57" (145cm)	65" (165cm)	70" (178cm)	81" (206cm)	NR	NR
3/16" (4.8mm)	NR	57" (145cm)	66" (168cm)	72" (183cm)	82" (208cm)	NR
1/4" (6.4mm)	NR	46" (117cm)	58" (147cm)	66" (168cm)	72" (183cm)	112" (285cm)
5/16" (8.0mm)	NR	20" (51cm) – 2P	46" (117cm)	58" (147cm)	59" (150cm)	100" (254cm)
3/8" (9.5mm)	NR	12" (30cm) – 2P	24" (61cm) – 2P	47" (119cm)	59" (150cm)	88" (224cm)
1/2" (12.7mm)	NR	NR	14" (36cm) – 2P	26" (66cm) – 2P	47" (119cm)	73" (185cm)
5/8" (15.9mm)	NR	NR	NR	16" (41cm) – 2P	26" (66cm) – 2P	57" (145cm)
3/4" (19.5mm)	NR	NR	NR	NR	16" (41cm) – 2P	43" (109cm)
7/8" (22.0mm)	NR	NR	NR	NR	NR	35" (89cm) – 2P
1" (25.4mm)	NR	NR	NR	NR	NR	28" (71cm) – 2P

**Note:** All figures derived from gouging mild steel under laboratory conditions. Field results may vary due to type of metal, power source, compressed air supply, operators experience and other parameters.

NR = Not Recommended 2P = Two (2) Passes

## Quick Reference Series

### Air Carbon-Arc Electrodes: Inches of Groove Per Electrode

<b>JOINTED JET-ROD CCDC ELECTRODES</b>			
<b>Groove Depth</b>	<b>5/16" x 14" 8.0mm x 35.6cm</b>	<b>3/8" x 17" 9.5mm x 43.2cm</b>	<b>1/2" x 17" 12.7mm x 43.2cm</b>
5/32" (4.0mm)	160" (406cm)	NR	NR
3/16" (4.8mm)	142" (361cm)	206" (523cm)	NR
1/4" (6.4mm)	125" (318cm)	172" (437cm)	260" (660cm)
5/16" (8.0mm)	112" (284cm)	150" (310cm)	188" (478cm)
3/8" (9.5mm)	84" (213cm)	136" (345cm)	157" (399cm)
1/2" (12.7mm)	72" (183cm) – 2P	103" (262cm)	140" (356cm)
5/8" (15.9mm)	48" (122cm) – 2P	75" (191cm) – 2P	102" (259cm)
3/4" (19.5mm)	NR	57" (145cm) – 2P	90" (229cm)
7/8" (22.0mm)	NR	NR	80" (203cm)
1" (25.4mm)	NR	NR	72" (183cm)

**Note:** All figures derived from gouging mild steel under laboratory conditions. Field results may vary due to type of metal, power source, compressed air supply, operators experience and other parameters.

**NR** = Not Recommended **2P** = Two (2) Passes