



# TECHNICAL PUBLICATION FOR: 20-100 SERIES BADGERCAST® STICK ANODES

## ACC 20-100

American Carbon Company manufactures high silicon cast iron (HSCI) anodes using a proprietary manufacturing process which provides the optimum chemical composition within the guidelines of ASTM Standard A518 grade 3. These anodes have proven to be equally suitable for off-shore and ground bed applications. Our casting procedure optimizes metal structure while allowing for great consistency in weight and dimension.

All anodes are constructed, inspected, and verified in accordance with American Carbon Company's ISO9001:2008 Quality Assurance Program. Learn more about ACC HSCI anodes at [www.amcarbon.com](http://www.amcarbon.com).

## STANDARD SIZES FOR ANODES

Product Code	Description	Overall Length Tolerance: ±2%	Head Diameter Tolerance: ±2%	Head Length Tolerance: ±2%	Rod Diameter Tolerance: ±2%	Weight Tolerance: -0, +5%
20-101	"CD" Type	60" (1524 mm)	2" (51 mm)	5" (127 mm)	1.5" (38 mm)	27 lbs (12.3 kg)
20-102	"D" Type	60" (1524 mm)	2" (51 mm)	5" (127 mm)	2" (51 mm)	44 lbs (20.0 kg)
20-103	"D" Type - Pin*	60" (1524 mm)	3" (76 mm)	6" (152.4 mm)	2" (51 mm)	47 lbs (21.5 kg)
20-104	"E" Type	60" (1524 mm)	4" (102 mm)	8" (203.2 mm)	3" (76 mm)	110 lbs (49.9 kg)
20-105	"M" Type	60" (1524 mm)	3" (76 mm)	6" (152.4 mm)	2.25" (57 mm)	63 lbs (28.6 kg)

\*"D" Type—Pin has an expanded head with a 3" pipe seated a minimum of 2" into the anode, and free of any obstructions on the inside of the 5/16" inside diameter pipe. This allows for a 100% lead free connection method.

## CHEMICAL COMPOSITION

Chemical Composition	Percentage
Silicon (Si)	14.2 - 14.75%
Chromium (Cr)	3.25 - 5.0%
Manganese (Mn)	≤ 1.5%
Carbon (C)	0.70 - 1.10%
Molybdenum (Mo)	≤ 0.2%
Copper (Cu)	≤ 0.5%
Iron (Fe)	Balance

### CONTACT INFO:

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