



TECHNICAL PUBLICATION FOR: 20-300 SERIES BADGERCAST® TUBULAR ANODES

ACC 20-300

American Carbon Company manufactures high silicon cast iron (HSCI) anodes cast using the latest in centrifugal casting technology. Centrifugal casting ensures that the chemical composition of the anode is perfectly ideal for Cathodic Protection applications by moving heavier elements to the exterior of the anode. BADGERCAST tubular anodes comply with ASTM Standard A518 grade 3 chemical composition. These anodes have proven to be equally suitable for off-shore and ground bed applications. The centrifugal 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 BADGERCAST tubular anodes at www.amcarbon.com.

STANDARD SIZES FOR ANODES

Product Code	Common Name	Overall Length Tolerance: ±2%	Diameter Tolerance: ±2%	Weight Tolerance: -0, +5%	Surface Area	Nominal Discharge*
20-301	TA-D	60" (1524 mm)	2.64" (67 mm)	50 lbs (22.7 kg)	3.46 sf (0.32 m ²)	2.5-3.5 Amps
20-302	TA-2	84" (2133 mm)	2.2" (56 mm)	50 lbs (22.7 kg)	4.03 sf (0.37 m ²)	3.0-4.0 Amps
20-303	TA-3	84" (2133 mm)	2.64" (67 mm)	70 lbs (31.8 kg)	4.83 sf (0.45 m ²)	3.5-5.0 Amps
20-304	TA-4	84" (2133 mm)	3.74" (95 mm)	90 lbs (40.9 kg)	6.85 sf (0.64 m ²)	6.0-7.0 Amps

*Based upon a 20 year life in carbonaceous backfill.

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

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