Technical Publication for: 10-x03 series

Resin Treated Graphite Anode

ACC 10-303 and 10-403

American Carbon Co. manufactures resin treated graphite anodes for installations in wet and hostile environment. Resin treated anodes are recommended for deep anode ground beds and free suspension applications in water tanks, docks, and piers where the anode is suspended by the lead wire.

Resin treated graphite rods are pressure impregnated under extreme heat and pressure using a phenolic resin to yield a product with no detectable porosity as compared to a typical porosity of 22% for normal graphite rods. After impregnation the rods are autoclaved at a temperature that allows the resin to carbonize, thus maintaining and slightly increasing the specific resistance of the original rod. After treatment each rod is OD machined to remove resin drops and surface build-up.

All anodes are constructed, inspected, and verified in accordance with American Carbon Company's in house QAP. A copy of the program available upon request.

Standard Sizes for Anodes

Anode Size and Type	Dimensions (inches)	Weight (lbs)	Surface Area (ft)
3 x 60 Regular	3 x 60	25.000	4.025
3 x 60 Treated	3 x 60	27.000	4.025
4 x 80 Regular	4 x 80	66.000	7.156
4 x 80 Treated	4 x 80	71.250	7.156

Technical Information

Characteristic	Data
Density	≥ 1.80 g/cc
Flexural Strength	≥ 2,200 psi
Resistivity	≤ 0.0003 ohm/in
Purity	99.9% Carbon
Porosity	≤ 0.1%
Tolerance (OD)	+1/4, -0
Tolerance (L)	+1, -0
Tolerance (Bowing)	≤ 0.31"
Tolerance (Pitting)	≤ 0.125"
Ash (%)	≤ 0.20%

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