



HOUSTON • MIDLAND • DENVER

Graphite anodes have been commercially available since the mid-40s. Graphite is particularly suitable to cathodic protection because of its chemical inertness, affordable cost, and good electrical conductivity. The graphitization process produces an anode that has improved electrical and thermal conductivity.

We offer both treated and untreated anodes, though treated anodes are recommended for increased life of anode in hostile or wet environments, as well as “free suspension” applications in water tanks where the anode is suspended by its lead wire. The most common use of graphite anodes is within deep ground beds.

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STANDARD APPLICATIONS

- Graphite anodes are available untreated, or treated with paraffin wax or resin.
- Graphite anodes undergo a graphitization process in which carbonaceous fillers (calcined petroleum coke) are bonded with carbon-yielding binders (coal tar pitch).
- Choice of epoxy cap or heat shrink polyethylene cap.
- End connects and center connects.
- Standard wire is #8 HMWPE & #6 HMWPE. Other size lead wires available upon request.



BENEFITS

- Chemical Inertness
- Crystalline properties make for good electrical & thermal conductivity.
- Affordable Cost
- While applicable to many projects, they are especially effective for underground pipelines.

STANDARD SIZES AVAILABLE

PRODUCT NO.	CONNECTION TYPE	ANODE MEASUREMENTS			WEIGHT
		DIAMETER	LENGTH	S.A. (SQ.FT)	
BK3X60GR	End	3"	60"	4.025	25
BK4X80GR	End	4"	80"	7.156	65
BK3X60GRRESIN	End	3"	60"	4.025	27
BK4X80GRRESIN	End	4"	80"	7.156	71.25
BK3X60GRWAX	End	3"	60"	4.025	27
BK4X80GRWAX	End	4"	80"	7.156	71
BK3X60GRWAXCC	Center 20mm x 30" deep	3"	60"	4.025	25.85
BK4X80GRWAXCC	Center 20mm x 40" deep	4"	80"	7.156	69.3

Regular graphite anodes are the most cost effective solution for anode installations. The ideal installation environment includes especially arid soil conditions.

TECHNICAL INFO

UNTREATED GRAPHITE ANODES	CHARACTERISTIC	DATA
	Density	1.66-1.72 g/cc
	Flexural Strength	≥2,200 psi
	Resistivity	≤0.0003ohm/in
	Purity	99.9% Carbon
	Porosity	≤14%
	Tolerance (OD)	+1/4, -0
	Tolerance (L)	+1, -0
	Tolerance (Bowling)	≤0.31"
	Tolerance (Pitting)	≤0.125"
Ash (%)	≤0.20%	

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