

Description

St. Marys Carbon manufactures HALO™ turbine & compressor rings from superior carbon graphite grades, including carbon graphite, electrographite and resin-bonded graphite for a variety of applications. St. Marys Carbon is widely recognized in this industry and is the preferred supplier for many major manufacturers. All of our turbine & compressor rings, from the blending of raw materials to the finished product, are made in-house by our specialized craftsmen.

** St. Marys Carbon is a custom solution provider. No matter your application or product needs, contact us and we **will** find a solution.*



Features & Benefits

- **Dry-Running / Oil-less:** Greatly reduces failure rates and allows for use in sanitary environments due to its self-lubricating properties.
- **High Temperature Stability:** Maintains high strength and runs effectively without failure at high temperatures.
- **High Thermal Conductivity:** Allows for heat exchange to prevent overheating.
- **Low Friction / Wear:** Resists wear and reduces friction as it is chemically inert, oxidation-resistant and self-lubricating.

Typical Applications

- **Steam Turbines**
- **Gas Turbines**
- **Hydro-Electric Power**
- **Wind Power**
- **Centrifugal Compressors**
- **Axial Compressors**
- **Reciprocating Compressors**
- **Blowers / Fans**

Key Markets - Aerospace, Chemical, Industrial, Oil & Gas, Power Generation, Renewable Energy, Steel

Specifications - Below are St. Marys Carbon's top recommended grades, which are produced in-house.

Properties English Units

Grade	Density (lbs./ft. ³)	Flexural Strength (psi)	Compressive Strength (psi)	Coefficient of Thermal Expansion (μ/°F)	Temperature Limit Neutral (°F)	Temperature Limit Oxidizing (°F)	Scleroscope Hardness	Applications
49	99.84	4,000	9,800	1.91	1,500	650	45	Turbine & Comp. Rings
49C	112.32	7,000	22,000	2.30	500	500	55	Turbine & Comp. Rings
75	106.08	8,100	21,500	2.80	3,000	750	80	Turbine & Comp. Rings
117	102.96	3,600	9,000	2.01	5,000	850	40	Turbine & Comp. Rings
35	109.20	7,000	17,500	2.40	5,000	850	60	Turbine & Comp. Rings
35AH	109.20	7,500	17,000	2.40	1,500	1,150	65	Turbine & Comp. Rings
219	110.45	10,000	25,000	2.54	1,600	700	75	Turbine & Comp. Rings
185	111.70	7,700	19,000	2.20	500	500	72	Turbine & Comp. Rings

