



## Description

St. Marys Carbon custom manufactures many sizes, shapes and quantities of carbon graphite bearings, including Radial, Thrust and Sleeve. All of our bearings, from the blending of the 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

- **Chemical Pumps**
- **Fluid-Handling Pumps**
- **Food-Handling Pumps**
- **Fuel Pumps**
- **Medical Pumps**
- **Oil & Gas Pumps**
- **Refrigeration Pumps**
- **Vacuum Pumps**

**Key Markets** - Aerospace, Automotive, Chemical, Food, Industrial, Medical, Mining, Oil & Gas, Pharmaceutical

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

### Properties English Units

Grade	Density (lbs./ft. <sup>3</sup> )	Flexural Strength (psi)	Compressive Strength (psi)	Coefficient of Thermal Expansion (μ/°F)	Temperature Limit Neutral (°F)	Temperature Limit Oxidizing (°F)	Scleroscope Hardness	Applications
181C	111.07	10,000	30,000	3.06	500	500	90	Bearings / Bushings
75	106.08	8,100	21,500	2.80	3,000	750	80	Bearings / Bushings
75C	112.32	9,300	30,000	3.25	500	500	95	Bearings / Bushings
416	115.50	13,000	33,000	2.80	500	500	95	Bearings / Bushings
35	109.20	7,000	17,500	2.40	5,000	850	60	Bearings / Bushings
35AH	109.20	7,500	17,000	2.40	1,500	1,150	65	Bearings / Bushings
245	113.00	8,000	16,000	2.30	5,000	850	80	Bearings / Bushings
233	118.56	8,000	22,000	2.30	1,000	1,000	90	Bearings / Bushings