



Description

St. Marys Carbon custom manufactures a large variety of carbon and graphite grades for a wide range of wear applications. Our proprietary grades are necessary for many of the unique environments in which wear products are required. All of our products, from the blending of raw materials to the finished products, 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

- **Raw Materials Extraction / Breakdown (e.g., aggregates, sand, gravel, coal)**
- **Recycling**
- **Landscaping**
- **Manufacturing Equipment**

Key Markets - Agriculture, Environmental, Construction, Industrial, Mining, Power Generation

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	Temperature Limit Neutral	Temperature Limit Oxidizing	Scleroscope Hardness	Applications
94	99.84	8,000	22,000	N/A	1,600	700	45	Wear Plates
199	107.33	6,600	10,500	2.18	1,600	650	40	Wear Plates
1G	102.96	3,000	4,500	N/A	100	100	30	Graphite Plugs
138G	112.32	3,800	4,800	1.71	100	100	40	Graphite Plugs