ST. MARYS CARBON
Creating Viable Solutions

MECHANICAL SEAL FACES

Description / Applications:

St Marys Carbon's (SMC) mechanical seal faces are a combination of science and employee craftsmanship. SMC offers a variety of seal grades to suit any application. We offer blank stock, various impregnations, and have the capability to machine intricate seals with polished faces. SMC's quick delivery and attention to detail is what sets us apart from our competition. Whatever your application needs, SMC has a material to meet your specific application.

Features / Benefits:

The properties found only in carbon and graphite have made these materials attractive for numerous mechanical applications. The advantages of SMC mechanical grades are: stability at high temperature, chemically inert, oxidation resistant, self-lubricating, freedom from welding or melting, and good machinability. The surface of these materials can also be ground to a high degree of precision in flatness and smoothness.

Specifications:

	Below are SMC's top recommended grades, which are produced from raw materials purchased in the U.S.A.								
	Properties English Units								
Grade	**Density**	**Flexural Strength**	**Compressive Stength**	**Coef. of Thermal Expansion**	**Temp Limit Neutral**	**Temp Limit Oxidizing**	**Scleroscope Harness**	**Volume Porosity**	**Applications**
275	1.85	10000 psi	24000 psi	2.60	500	500	80	2%	General Purpose Seals
375	1.90	10000 psi	25000 psi	2.60	500	500	80	1%	Sold as Blanks, Easily Machined
416	1.85	13000 psi	33000 psi	2.80	500	500	95	1%	High Duty Seals
439	1.81	11000 psi	32000 psi	3.25	500	500	95	1%	Non-Lubricated Applications
371	1.85	13000 psi	33000 psi	2.80	500	500	95	1%	FDA Applications
Typical Properties									

SMC Quality Since 1939

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