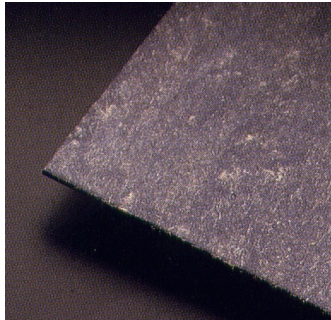




STYLE 1100NA CARBON FIBER/NBR BINDER



CONSTRUCTION

Style 1100NA is a compressed non-asbestos sheet gasket material produced from carbon fibers and graphite, bonded with nitrile rubber (NBR). It is manufactured through the hot calendar process under rigorous quality control standards that are registered under ISO-9001 certification.

APPLICATION / SERVICE

Style 1100NA is a premium grade, multi-service gasket sheet, designed to handle the extremes of pressure and temperature, and it cuts very easily and cleanly. The versatility of this sheet enables a plant to standardize on one sheet for a multitude of applications and avoid the confusion of having to choose from several different sheets.

SERVICE LIMITS

Type	Description	Value
Temperature Limits	Maximum	840°F (450°C)
	Continuous Max	518°F (270°C)
Pressure Limits	Maximum	1900 psi (130 bar)
	Continuous Max	1000 psi (70 bar)
ASTM Line Call Out F104	F712120E23M6	
Color	Black	

SHEET SIZE	PART NUMBER
1/64" X 60" X 60"	SDS-06455-1100NA
1/32" X 60" X 60"	SDS-03255-1100NA
1/16" X 60" X 60"	SDS-06255-1100NA
3/32" X 60" X 60"	SDS-09355-1100NA
1/8" X 60" X 60"	SDS-12555-1100NA
LARGER SHEET SIZES AVAILABLE	

NA1100

CARBON FIBER/NBR BINDER COMPRESSED SHEET

TYPICAL PHYSICAL PROPERTIES

ASTM Test Method	Property	Value
-	Density	106 lb/ft ³ (1.7 gg/cc)
F36	Compressibility	5-15%
F36	Recovery	min 50%
F152	Tensile Strength Across Grain	2175 psi (15 N/mm ²)
F495	Ignition Loss	max 50%
F146	Thickness Increase After 5 Hour Immersion	
	· ASTM IRM 903 @300°F (150°C)	max 15%
	· ASTM Fuel B @77°F (25°C)	max 15%
F146	Weight Increase After 5 Hour Immersion	
	· ASTM IRM 903 @300°F (150°C)	max 15%
	· ASTM Fuel B @77°F (25°C)	max 15%
F38	Creep relaxation	22%
	Torque Retention (DIN 52913)	35 N/mm ²
F37	Sealability at 1000 psi	0.2 ml/h



SAN DIEGO SEAL, INC.

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**STYLE 9900NA - Compressed Sheet
Graphite/NBR Binder**



Style 9900NA is a Compressed Non-Asbestos sheet gasket material produced from aramid fiber, graphite, reinforced fillers and bonded with nitrile rubber (NBR). It is manufactured through the hot calendar process under rigorous quality control standards that are registered under ISO-9001.

ABS Fire Safe Type Approved for Fire Main Systems

APPLICATION / SERVICE □ **STYLE 9900NA** is suitable for services with the following general media categories

- Mild inorganic acids
- Diluted alkalis
- Aliphatic solvents
- Synthetic oils
- General chemicals
- Mild organic acids
- Water
- Industrial gases
- Vegetable oils
- Neutral solutions
- Refrigerants
- Brine
- Animal oils
- Petroleum and Derivatives
- Air

SERVICE LIMITS		
Type	Description	Value
Temperature Limits	Maximum	1,000°F
	Continuous Max	650°F
Pressure Limits	Maximum	2,000 PSI
ASTM Line Call Cut F104	F7713130E43M5	

TYPICAL PHYSICAL PROPERTIES

ASTM Test Method	Property	Value
ASTM F1315	Density	100 lb/ft ³ (1,6g/cc)
ASTM F36A	Compressibility	10-20%
ASTM F36A	Recovery	min 37%
ASTM F152	Tensile Strength	1740 psi (12N/mm ²)
ASTM F146	Thickness Increase	
	• ASTM Oil IRM903, 5h/300°F (150°C)	max 15%
	• Fuel B, 5h/77°F (25°C)	max 15%
ASTM F146	Weight Increase	
	• ASTM Oil IRM903, 5h/300°F (150°C)	max 25%
	• Fuel B, 5h/77°F (25°C)	max 30%
ASTM F1315	Density	100 lb/ft ³ (1,6g/cc)
ASTM F36A	Compressibility	10-20%
ASTM F36A	Recovery	min 37%
ASTM F152	Tensile Strength	1740 psi (12N/mm ²)

SHEET SIZE	PART NUMBER
1/64" X 60" X 60"	SDS-06455-9900NA
1/32" X 60" X 60"	SDS-03255-9900NA
1/16" X 60" X 60"	SDS-06255-9900NA
3/32" X 60" X 60"	SDS-09355-9900NA
1/8" X 60" X 60"	SDS-12555-9900NA
LARGER SHEET SIZES and PRE-CUT GASKETS AVAILABLE	



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THERMICULITE. 815

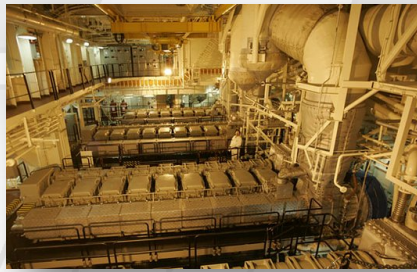
CRITICAL SERVICE SERIES



- Premium Grade, Critical Service Sheet
- Original grade of Thermiculite
- On 316ss tanged core
- Niche market, problem solving material for extreme high temperature applications up to 1800°F
- Successfully passed API 607 and Exxon fire tests
- Available in 1m x 1m and 1.5m x 1.5m
- Thicknesses 1/32, 1/16, 1/8
- Proven Track Record Since 1998
- Winner of Chem Processing magazine Vaaler Award



OIL / GAS



GAS TURBINE / DIESEL EXHAUST



POWER

SERVICE LIMITS

Type	Description	Value		
Temp. Limits:	Maximum	1800°F (982°C)		
Pressure Limits:		2900 psi (200 bar)		
Thicknesses		1/32	1/16	1/8
Typical Properties:	Compressibility	33%	44%	44%
	Facing Density lb/ft ³	75	75	75
	Recovery	13%	9%	9%
	Gas Permeability mL/min	.06	.13	.17
	Stress Retention @570°F	4930	4500	2470
	Creep Relaxation - 1/32"	23.5%		
PART NUMBER / SHEET SIZE				
SDS-03244-815 / 1/32" X 39.4" X 39.4"		SDS-03255-815 / 1/32" X 60" X 60"		
SDS-06244-815 / 1/16" X 39.4" X 39.4"		SDS-06255-815 / 1/16" X 60" X 60"		
SDS-12544-815 / 1/8" X 39.4" X 39.4"		SDS-12555-815 / 1/8" X 60" X 60"		
SDS-25044-815 / 1/4" X 39.4" X 39.4"		SDS-25055-815 / 1/4" X 60" X 60"		

NAVY DRILL, COMMERCIAL DRILL AND CUSTOM PRE-CUT GASKETS ARE AVAILABLE