

# Gasket Product Submittal

## DRESSER GRADE 27 GASKETS

### BUNA-S (SBR - Styrene Butadiene Rubber)

MAX TEMPERATURE RATING: 212F

MAX PSI: Per product specified

**Grade 27 BUNA-S** is the rubber compound most generally used for plain gaskets. This gasket has wide applications and is accepted as standard for most pipeline usage. It is recommended for use on lines transporting both fresh water and salt water, natural and other gases, air, most acids, alkaline and sugar solutions and some refrigerants.

**SPECIFICATION:** The gaskets shall have cross sections as approved and shall be made of new rubber, compounded to give maximum durability. The compounded rubber of the completed gaskets shall conform to the following physical properties:

TENSILE STRENGTH: Minimum 1500 PSI (10.35 MN/m<sup>2</sup>)

ELONGATION: Minimum 150%

HARDNESS: Shore A Durometer 75 ± 5

COMPRESSION SET: 4% Maximum 30 Minutes

3% Maximum 3 Hours

Tensile strength and elongation shall be determined in accordance with ASTM Specification D412. Hardness shall be determined as specified by the ASTM Designation D2240. Compression set shall be determined upon 3/4" diameter X 1/2" thick disc, cut from 3" diameter plaque, subjected to 600 PSI for 48 hours at room temperature. In other respects, the procedure shall conform to the requirements of ASTM D395 Method A, using the external loading device. In addition, a specimen is subjected to a compression of 20% of the original deflection for 22 hours at 158°F (70°C). Results are in accordance with ASTM D395 Method B.

The deterioration of the physical properties of the rubber shall not exceed minus 25% in tensile strength, minus 35% in elongation, and an increase in durometer not to exceed 10 points in aging tests conducted at a temperature of 158°F. This shall be for the duration of 96 hours and made in accordance to the Standard Specifications for Accelerated Aging of vulcanized rubber by the Oven Method, Serial Designation D573 of the American Society for Testing Materials.

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### Grade 27 Armored® Gaskets

Armored gaskets are used where low electrical-resistant joints are desired. The armor "bites" into the pipe providing metal to metal contact allowing easy passage of current where cathodic protection is a necessity.

The armor—an elastic, practically indestructible brass coil or helix—is molded into the gasket tip becoming an integral part of the gasket. When used with the proper grade/compound rubber, the armor shields the gasket material from the line content without interfering with the sealing efficiency of the gasket.

#### NOTE: Dresser Compounded Rubber Gaskets

Dresser coupled joints absorb pipe stress caused by natural forces and allow for expansion, contraction, vibration and deflection while the line is in service. Resiliency is the property that enables the gaskets to maintain pressure against the followers that confine it while allowing flexibility not found in rigid piping connections. The absorption of pipeline stress permits each section of the pipeline to "float" in the joint ensuring a flexible piping system.

**Shelf Life** of rubber products is approximately five (5) years provided they are stored in a cool, dark environment, free from the aging effects of heat, ozone contact, sunlight and weathering factors - all detrimental to the physical characteristics of elastomer materials.



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