

# Gasket Product Submittal

## DRESSER EPDM GASKETS - GRADE 199

**EPDM (Ethylene Propylene Diene Monomer)**

MAX TEMPERATURE RATING: 300F

MAX PSI: 250

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**Grade 199 EPDM** provides excellent resistant to aging factors such as ozone, oxygen and elevated temperatures including hot water service, steam and dry heat. They are also suitable for handling popular chemicals such as ketones, alcohols, phosphate ester hydraulic fluids, glycols, vegetable oils, inorganic salt solutions, diluted acids and alkalies. Avoid petroleum oils and di-ester base lubricants.

**SPECIFICATION:** The compounded rubber of the completed gaskets shall conform to the following physical properties:

TENSILE STRENGTH: Minimum 1500 PSI

ELONGATION: Minimum 150%

HARDNESS: Shore A Durometer 72 ± 8

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.

The deterioration of the physical properties of the rubber shall not exceed ± 25% in tensile strength, ± 25% in elongation, and the change in durometer or hardness not to exceed ± 10 points in aging tests. Test shall be for the duration of 70 hours at a temperature of 300°F 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.

**NOTE:** 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.

### Dresser Pipeline Solutions

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