

# GN50R<sup>®</sup>/GNR50B

## Basic Specifications

Abrasion/erosion resistant natural rubber.

## Mechanical Properties

Tensile Strength: 3,700 psi/25.5 MPa

Hardness: 50 Shore A

300% Modulus: 800 psi/4.5 MPa

Elongation at break: 625% Bayshore

Rebound: 62%

Specific Density: 1.05

Relative Erosion Resistance Index: 3.25

Temperature Range: -40° to 158° F, -40° to 70° C

*Note: The above given values are typical properties for the natural rubber compounds. The hardness may vary in the range 45-55 Shore A.*

## Compound Grades

GN50R<sup>®</sup> & GNR50B are silica reinforced natural rubber compounds designed to provide an excellent combination of high resilience, physical strength, flexibility, abrasion and erosion resistance. GNR50R is a Red color while GNR50B is a Black color compound.

## Wear Resistance

GN50R<sup>®</sup>/GNR50B compounds rank as some of our best wear resistant materials and are recommended for various slurry applications involving relatively fine particles.

## Chemical Resistance

GN50R<sup>®</sup>/GNR50B have moderate resistance against corrosive conditions. In general, both compounds have fair to good resistance to acidic and alkaline environments, but relatively low resistance to oils and petrol conditions.

## Test Specimens and Certifications

The manufacturing facilities of KSB GIW, Inc. and its rubber suppliers are ISO 9001 certified to ensure that quality control and quality assurance procedures are applied.

## Application

With its superior physical properties and wear resistance, GN50R<sup>®</sup>/GNR50B are well suited for the manufacture of pump parts where abrasion or corrosion resistance is required. Both grades provide exceptional tolerance to cutting and tearing.

## Storage

Recommended practice is to store away from direct heat and sunlight in accordance with ISO 2230 and SAE AS5316, "Rubber Products-Guide for Storage."