

# GN50R®

## Basic Specifications

Abrasion-corrosion resistant natural rubber.

## Mechanical Properties

Tensile Strength: 3,700 psi/25.5 MPa

Hardness: 50 Shore A

300% Modulus: 650 psi/4.5 MPa

Elongation at break: 650%

Dunlop Resilience: 68%

Specific Density: 1.05

Relative Erosion Resistance Index: 3.25

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

## Microstructure

GN50R® is a silica reinforced natural rubber compound designed for an excellent combination of high resilience, mechanical strength, flexibility, abrasion and erosion resistance.

## Wear Resistance

GN50R® ranks as one of our best materials and is recommended for various slurry applications involving relatively fine particles.

## Corrosion Resistance

GN50R® has moderate resistance against corrosive conditions. In general, GN50R has 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 GIW 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 is well suited for the manufacture of pump parts where abrasion or corrosion resistance is required. The product offers exceptional tolerance to cutting and tearing.

## Storage

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



GIW Industries, Inc. (A KSB Company)  
5000 Wrightsboro Road, Grovetown  
Georgia 30813-2842, USA  
www.giwindustries.com

GIW® Minerals