

TECHNICAL DATA SHEET

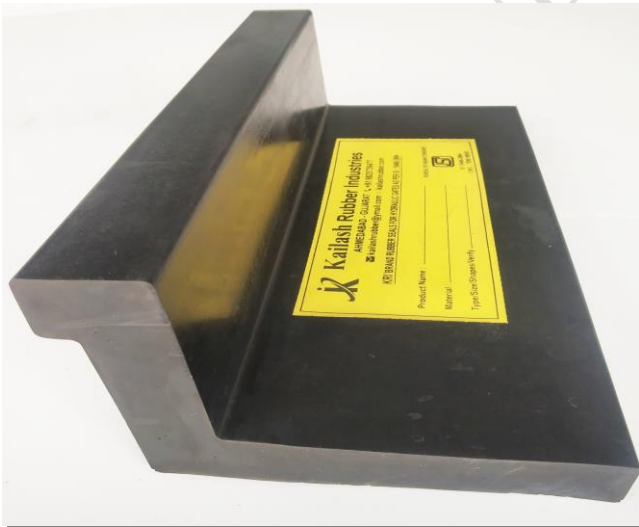
HYDRAULIC GATE RUBBER SEAL

BUREAU OF INDIAN STANDARD
IS:15466 – 2004



CM/L - 7200150695
RUBBER SEALS FOR HYDRAULIC GATES

KRI SYSTEM OF RUBBER SEAL
FOR HYDRAULIC GATE



1. Introduction

KRI Seals are moulded only, usually from compounds of Natural Rubber. Natural Rubber has superior mechanical properties.

In general, rubber hydraulic seals should have high tensile strength, high tear resistance, good abrasion resistance, low water resistance and excellent weathering resistance.

We also use other rubber such as SBR, Neoprene and EPDM in the hydraulic gate seal.

Natural Rubber Physical characteristics shall meet the following:

Physical Test	Test Value	Specifications
Durometer Hardness,	60 to 70 Shore Type A	ASTM D2240
Tensile strength	> 21 MPa	ASTM D412
Elongation at Rupture	450% (min.)	ASTM D412
Water Absorption volume	> 5 % change	ASTM D471
Compression Set B 22 Hrs. @ 70 °C	30% (max.)	ASTM D395
Resistance to ozone cracking for 50 pphm at 20% strain at 40°C for 96hr	No Crack	ASTM D1149
Tensile strength after heat Aging for 48 Hrs@ 70	>10 % of tensile strength before aging	ASTM D573
Elongation after heat 48 Hrs@70°C	>11 % of elongation before aging	ASTM D573
Low Temperature Brittleness	Non-brittle after 3 min' @ -40°C	ASTM D2137

STORAGE AND HANDLING

KRI are specially packaged to withstand damage during transportation.

Rubber seals should be handled and stored carefully in the correct manner.

1. Avoid exposure to direct sunlight and high concentrations of Ozone.
2. Preferably store in a cool room, free of UV radiation and Significant temperature variations.
3. Preferably store flat in the relaxed position (Unrolled and straight).
4. Store without other objects loaded on top.
5. Avoid bending or rolling the delivered seals in tighter coils, Especially Teflon-coated seals.
6. Avoid seals coming in contact with sharp objects.
7. Store under dry conditions away from oils, chemicals etc.
8. Avoid exposing seals to extremes of temperature.
9. Ensure seals are not resting on abrasive surfaces.
10. If seals are stored outside provide a cover to exclude light, However ensure free circulation of air.
11. If seals are stored in their rolled position, unroll at least 72 hours Prior to Installation.
12. Seals with PTFE should NOT be bent or folded IN ANY WAY And must be stored out of sunlight in cool dry storage until Installed.

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