



The Home Rubber Company

Toll Free: (800) 257-9441

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sales@homerubber.com

HOME RUBBER NOMEX COVERED WATER HOSE



NON-METALLIC FURNACE DOOR HOSE

Designed to resist sparks and flames.

Tube: Quality rubber tube, resistant to water absorption.

Reinforcement: Plies of strong polyester fabric.

Cover: One or more plies of Nomex fabric.

Maximum Length: 50'

The Home Rubber Company provides hose engineering and design services, utilizing technical expertise and proven application experience.

Furnace Hose types produced by Home Rubber

Small Bore Furnace Hose: from 1/2" ID to 3.0" ID, is a soft wall (non-helix) construction. The hose is primarily used to provide cooling water to the furnace doors.

Large Bore Furnace Hose: over 3" ID, usually contains a helix component to provide maximum flexibility without kinking, and primarily used to provide cooling water to the furnace top and electrodes.

Standard large bore hoses are designed for 150 PSI maximum working pressure water service.

High Temperature Water Hose Softwall

I.D. Inches	Reinforcement Plies	Plies Nomex	Max W.P. Lbs.
1/2"	3	1	250
1/2"	4	1	300
1/2"	3 or 4	2	300
3/4"	3	1	200
3/4"	4	1	250
3/4"	3 or 4	2	200
7/8"	3 or 4	1	175
7/8"	3 or 4	2	175
1"	4	1	200
1"	5	1	250
1"	4 or 5	2	200
1-1/4"	4	1	175
1-1/4"	5	1	200
1-1/4"	4 or 5	2	175
1-1/2"	4	1	150
1-1/2"	5	1	175
1-1/2"	4 or 5	2	175
1-3/4"	4 or 5	1	125
1-3/4"	4 or 5	2	150
2"	4	1	125
2"	5	1	150
2"	4 or 5	2	150
2-1/2"	4	1	125
2-1/2"	5	1	125
2-1/2"	4 or 5	2	125
3"	4	1	75
3"	5	1	100
3"	4 or 5	2	100

Shading indicates standard stock size.

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FURNACE HOSE/HIGH TEMPERATURE WATER HOSE

Design and Selection Considerations

Bend Radius

Supporting the weight of the hose and cooling water along with kink resistance must be considered when selecting the proper Furnace Door Hose. Bend radius consideration is necessary to avoid flow restriction and premature, kink related, failure.

Typical non-helix constructions have a minimum bend radius equal to 8 times the hose ID, wire reinforced constructions typically reach 6:1, and **Profax** (Home Rubber Company's special non-conductive plastic helix material) constructions achieve a minimum bend radius 4:1.

Conductivity

Home Rubber Company builds Furnace Hose to meet conductivity requirements ranging from non-conductive (specially formulated non-conductive tube, and **Profax** helix), to highly conductive (specially formulated conductive rubber tube and wire helix). End connections are available with conductive and non-conductive fittings.

Cover Materials

Furnace Hose is constructed with special covers for protection from extreme radiant heat, direct flame, and exposure to molten slag.

Available Cover Materials

Nomex (Heat & Abrasion Resistant)

Our standard cover for furnace hose, used in 1, 2, or 3 ply constructions, rated to 600° F

Norfab (Heat & Abrasion Resistant)

A higher rated heat resistant material for furnace hoses supplied in 1 or 2 plies, rated to 700° F.

Fiberglass (Heat & Flame Resistant)

Superior heat resistance to Nomex and Norfab, used in single or multiple ply covers, is rated to 1,000° F, does not burn when exposed to flame.

Silicone

An integral Silicone cover provides a smooth surface that sheds molten slag and enhances flame resistance.

Silicone protection can be

applied the entire hose length or to specific areas, i.e. one end only, where molten slag splash and spatter is present.

Hose Ends

Home Rubber Company manufactures furnace hoses with most commercial couplings, including stainless steel and/or carbon steel built-in ends, integral Duck and Rubber Flanges, and swaged hose ends.



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