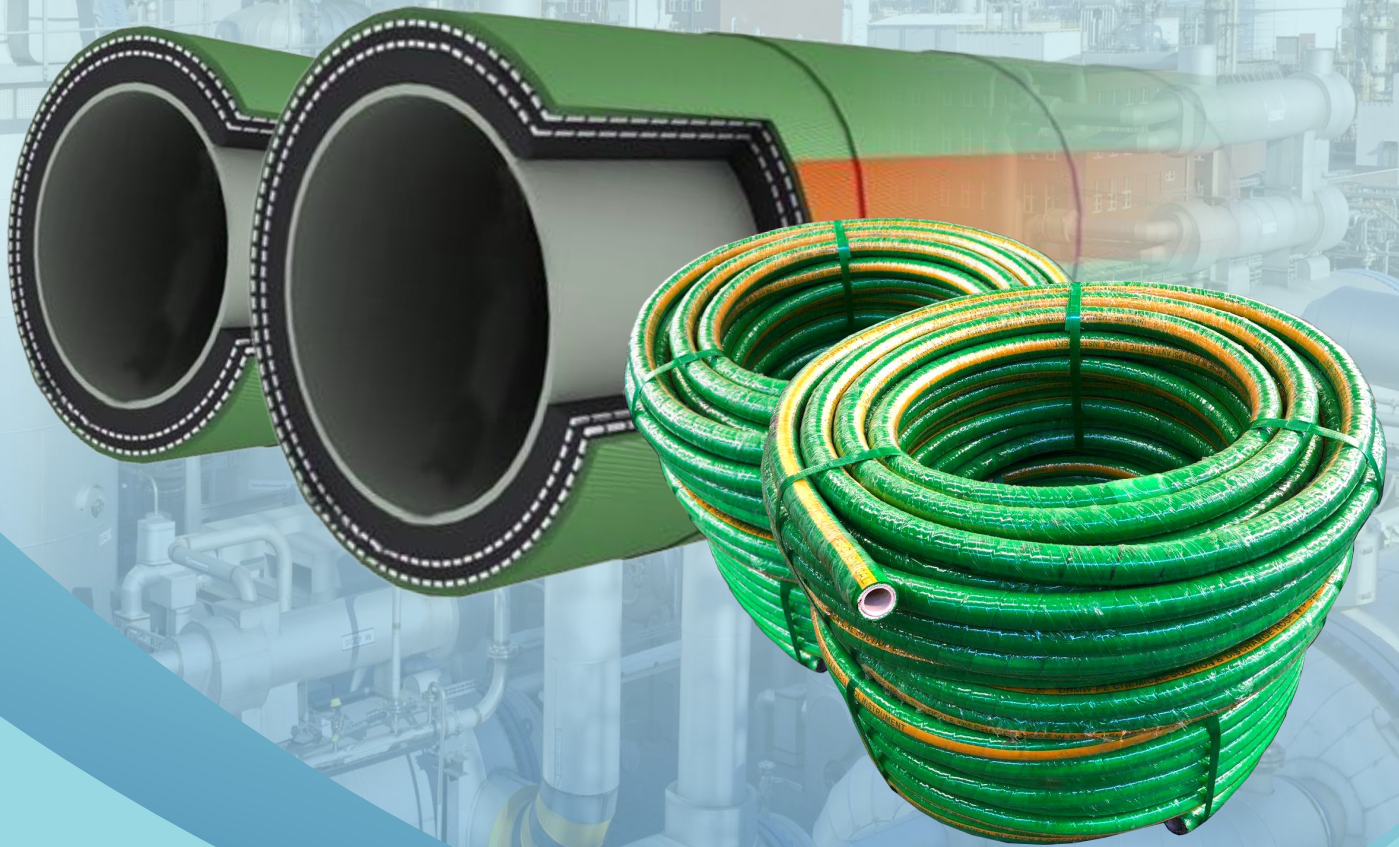


# **EVOL UHMW-PE CHEMICAL HOSE**



**EVOL**

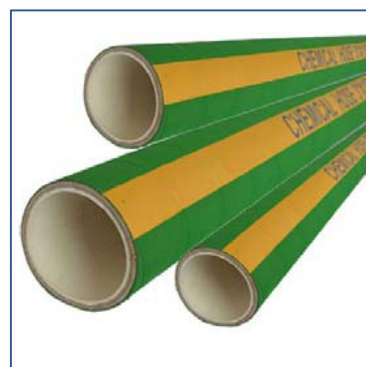
**INSTRUMENT**

# EVOL UHMW-PE CHEMICAL HOSE

## Suction & Discharge UHMW-PE Chemical Hose

EVOL UHMW-PE chemical hose is specifically manufactured to transfer chemical and conveying liquids such as organic and inorganic acids from one place to another. The inner and outer covers of chemical hose are made with EPDM rubber, which provides great flex life and chemical-resistant. In addition,

Copper wire is inserted into hose, which will then avoid the block of the flowing in the hose due to static and protect users from getting electric shock or electric current impingement.



EVOL UHMW-PE Chemical Hose

The chemical hose is widely used in field of:



1 Chemical Industry



2 Agriculture Industry



3 Food Industry



4 Petroleum Industry

## Features

Light weight

Flexible with small bending radius

High mechanical strength

Non-toxic, suitable for food industry use

Durable against the external impact,  
chemical and weathering

3 antis: UV, aging and static

Water-proof

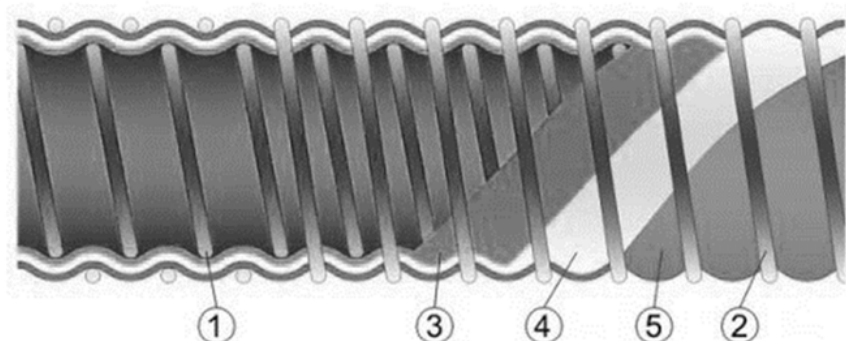
Long working life

## Specifications

Working pressure range	10 to 20 bar
Working temperature range	-30 to 90 °C
Length	60 m
Safety factor	1:3

❖ Length can be customized based on customer's requirement.

## Product Design



No.	Part
1	Wire
2	Inner
3	Inner lining
4	Reinforcement
5	Outer

## Standard Materials

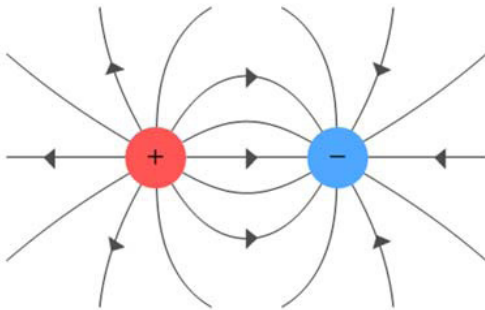
Parts	Materials	Applications
Inner	White or black EPDM	Great flex life; excellent resistance to heat, oxidation and ozone
Outer	Green or black EPDM	Great flex life; excellent resistance to heat, oxidation and ozone
Reinforcement	Multi-polyester thread layers	Excellent resistance to sunlight (UV) and mildew, which is suitable for outdoor applications
Inner lining	UHMWPE or PTFE films	Excellent resistance to abrasion and corrosive chemicals except oxidizing acids; extremely low moisture absorption
Wire	Copper	Great anti-static characteristic; prevent electric shock or electric current impingement.

❖ Other materials are available upon request.

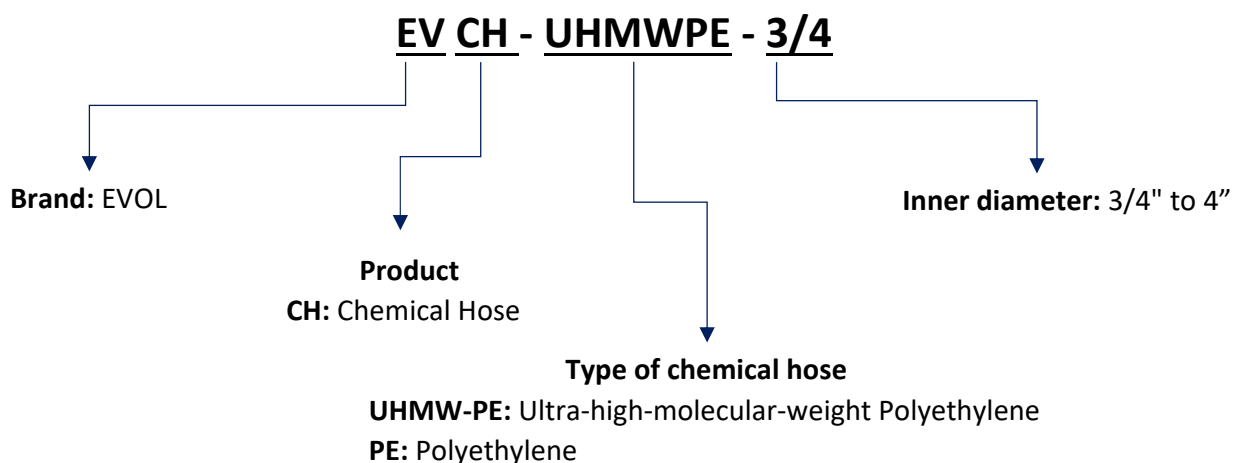
## Model Dimensions

No.	Inch	Nominal diameter (mm)	ID (mm)	OD (mm)	Weight (kg)	Working pressure (kPa)
1	3/4	19	19.0	29.0	0.85	1600
2	1	24	25.4	36.0	1.13	1600
3	1-1/4	31	31.8	44.0	1.33	1600
4	1-1/2	38	38.1	51.0	1.58	1600
5	2	51	50.8	65.0	2.24	1600
6	2-1/2	60	63.5	80.0	2.79	1600
7	3	80	76.2	93.0	3.71	1600
8	4	102	101.6	122.0	5.26	1600

## Functions of Different Parts

Parts	Functions
Inner	Contains and resists the fluid transported then transmits forces created by the internal pressures to the strength member.
Outer	Protects hose reinforcement and resists external environment and damage.
Reinforcement	Contains the forces created by the fluid pressure.
Inner lining	Provides excellent chemical and electrical resistances to the chemical hose.
Wire	<p>Fine copper wire is inserted in chemical hose to prevent the static from building up in insulators (rubber). The copper wire consists of <math>\text{Cu}^{2+}</math> (positive charged) ions. When the insulator is built up with static electricity, its surface is charged negatively. Thus, the positive charged ions from copper wire are attracted to the negative ends on the surface of insulator. As a result, the insulator is then achieved an even electric charge.</p> 

## Model Number





# **EVOL**Technologies

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