

# Multi-Purpose Reinforced PVC Hose

CX series



## General Description

This British made hose has been produced by Copely Developments Limited by a specially developed process as the result of a long term development programme.

The Coplexel hose range is manufactured by unique advanced hose production techniques using extrusion of high quality PVC material. The range has a black inside core and blue or black scuff resistant outer cover to give long lasting use in service and more positive handling.

Coplexel has been created for numerous applications where lack of flexibility and weight of traditional hoses has given problems or limitations in use. Coplexel is lightweight, affording less operator fatigue and extra flexible with greater kink resistance, immediate recovery and with tighter bend radius potential. These qualities make Coplexel your first choice for normal pneumatic application, air tools and water or liquid delivery.

The use of high quality PVC gives the Coplexel range a resistance against a wide range of chemicals and allows the hose to be used over a wide temperature range. Chemical applications will be governed by the suitability of customers' products with flexible PVC - the hose is usable from -15°C to +60°C.

## Technical Data

### UK and European Sizes

Product Ref	Size I.D.	O.D.	Weight per coil kgs	Working Pressure Bar	PSI	Bend Radius mm
CX 6	6	10.5	1.8	18	260	28
CX 8	8	12.5	2.6	15	220	29
CX 10	10	14	2.9	13	190	40
CX 12	12	17	3.8	11	160	55
CX 16	16	21	6.7	11	160	95
CX 19	19	24	7.8	11	160	135

3:1 Safety Factor @ 20°C

UK Standard Stock Sizes in 30m coils.

Colours available ex-stock: Blue and Black

Other colours available subject to minimum manufacturing quantities

Other dimensions available, subject to a minimum manufacturing quantity.

Coplexel hose can be manufactured to special purpose requirements with working pressures between 30 and 40 bar. Details on request.

### Conforms to Product Standards:

BS 6066 : 1981 (1986) ISO 5774 : 1980

### Test Methods and Procedures:

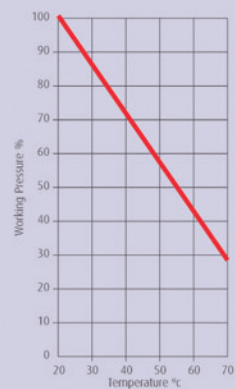
BS EN ISO 7751: 1997 BS EN ISO 1307 : 1996

ISO 1402 : 1994 BS EN 28033 : 1993

BS EN 24671 : 1993 ISO 8033 : 1991

Please see Standards Index for further information

### Pressure/Temperature Relationships



Max. recommended continuous working temperature = 60°C

## Special Features

Food

- Resistant to a wide range of chemicals (see Chemical Resistance Table)

Abrasive

- Silicone free

Water

- Abrasion resistance - good

Chemicals

- Made from Cadmium free materials

Gas

- Kink resistance - good

- Ergonomic design

- High flexibility

- High resistance to acids / alkalis

- Service temperature -15°C to +60°C

- Toxicity - low and suitable for food use

- Unique manufacturing process - patent no. 0036674

- Lightweight - affording less operator fatigue

- All finished coils shrink wrapped

# CHEMICAL RESISTANCE CHART

N	PUR	PE	PVC		N	PUR	PE	PVC		N	PUR	PE	PVC	
-	-	-	-	Acetic Acid, Glacial	-	4	1	4	Ethylene Chloride	3	2	-	4	Picric Acid
4	4	1	4	Acetic acid, 30%	-	4	1	4	Ethylene Glycol	4	4	-	-	Potassium Acetate (aq)
4	4	2	4	Acetone	-	4	4	2	Ethylene Oxide	4	1	1	1	Potassium Chloride (aq)
4	4	1	1	Acetylene	-	4	4	1	Ethylene Trichloride	4	1	1	1	Potassium Cyanide (aq)
4	-	-	-	Akazene	-	4	4	-	Ferric Chloride (aq)	3	4	1	1	Potassium Hydroxide (aq)
3	3	2	1	Aluminum Chloride (aq)	-	3	2	1	Ferric Nitrate (aq)	1	1	1	1	Producer Gas
-	-	-	-	Aluminum Nitrate (aq)	-	3	-	-	Ferric Sulfate (aq)	1	3	3	1	Propane
3	4	2	1	Ammonia Anhydrous	-	4	2	1	Fluorine (Liqued)	4	4	-	-	Propyl Alcohol
4	4	-	-	Ammonia Gas (cold)	-	3	-	-	Formaldehyde (RT)	4	-	-	-	Propylene
4	4	-	-	Ammonia Gas (hot)	-	4	-	-	Formic Acid	4	-	-	-	Propylene Oxide
1	1	1	1	Ammonium Chloride (aq)	-	1	1	1	Freon 11	4	4	-	-	Pydraul, 10E, 29 ELT
1	1	1	1	Ammonium Sulfate (aq)	-	1	1	1	Freon 12	4	-	-	-	Pydraul 30E, 50E, 65E
-	-	-	-	Amyl Alcohol	-	4	2	1	Freon 22	4	4	-	-	Pydraul,115E
4	4	-	-	Amyl Naphthalene	-	4	4	-	Fuel Oil	4	-	-	-	Pydraul 230E, 312C, 540C
1	1	-	-	Animal Fats	-	1	-	-	Futural Glucose	2	2	-	-	Rapeseed Oil
4	2	3	3	Aqua Regia	-	4	2	3	Glue	1	1	-	-	Red Oil (MIL-H-5606)
4	3	2	1	Arsenic Acid	-	3	2	1	Glycerin	1	1	-	-	RJ-1 (MIL-F-2338 B)
2	2	1	1	Asphalt	-	2	1	1	Glycols	1	1	-	-	RP-1 (MIL-F-25576 C)
2	3	-	-	ASTM Fuel A	-	2	-	-	Green Sultate Liquor	1	2	1	1	Salt Water
3	3	1	1	ASTM Fuel B	-	3	-	-	Hexane	4	4	-	-	Sewage
3	3	1	1	ASTM Fuel C	-	3	1	1	Hydraulic Oil	2	1	-	-	Silicate Esters
1	1	1	1	Barium Chloride (aq)	-	1	1	1	Hydrochloric Acid (cold) 37%	1	1	1	1	Silicone Oils
2	2	1	1	Beer	-	1	2	1	Hydrochloric Acid (hot) 37%	1	1	1	1	Silver Nitrate
4	4	1	1	Beet Sugar Liquors	-	4	1	1	Hydrofluoric Acid (Conc.)Cold	4	1	2	1	Skydrol 500
1	3	3	3	Benzene	-	1	3	3	Hydrofluoric Acid (Conc.) Hot	-	4	-	-	Skydrol 700
2	2	-	-	Benzine	-	2	-	-	Hydrogen Gas	1	3	3	1	Soap Solutions
4	4	-	-	Blast Furnace Gas	-	4	-	-	Isobutyl Alcohol	1	1	1	1	Sodium Chloride (aq)
4	4	-	-	Bleach Solutions	-	4	-	-	Isocetane	2	4	2	1	Sodium Hydroxide (aq)
1	1	2	2	Borax	-	1	1	2	Isopropyl Acetate	4	4	1	2	Sodium Peroxide (aq)
1	1	1	1	Boric Acid	-	1	1	1	Isopropyl Alcohl	1	1	-	-	Sodium Phosphate (aq)
-	-	-	-	Brake Fluid	-	4	-	-	Isopropyl Ether	-	1	1	1	Sodium Sultate (aq)
4	2	4	3	Brine	-	4	2	4	Kerosene	-	2	1	1	Soy Bean Oil
4	2	-	-	Bromine Water	-	4	4	-	Lacquers	4	4	-	-	Steam Under 300°F
1	1	3	3	Bunker Oil	-	1	1	3	Lacquer Solvents	4	4	-	-	Steam Over 300°F
1	1	-	-	Butane	-	1	1	-	Lard	3	1	3	3	Stoddard Solvent
1	1	-	-	Butter	-	1	1	-	Lavender Oil	3	-	-	4	Styrene
3	4	1	2	Butyl Alcohol	-	3	4	1	Lead Acetate (aq)	-	4	-	-	Sucrose Solution
4	4	1	1	Butylene	-	4	1	1	Linseed Oil	4	3	1	1	Sulfuric Acid (Dilute)
1	1	2	1	Calcium Chloride (aq)	-	1	1	2	Liquified Petrolateum Gos	4	3	4	-	Sulfuric Acid (Conc.)
1	1	2	1	Calcium Hydroxide (aq)	-	1	1	2	Lubricating Oils	4	3	2	1	Sulfuric Acid (20% Oleum)
1	1	-	-	Calcium Nitrate (aq)	-	1	1	-	Lye	4	3	2	1	Sulfurous Acid
1	1	-	-	Calcium Sulfide (aq)	-	1	1	-	Magnesium Chloride (aq)	1	2	1	-	Tannic Acid
-	-	-	-	Cane Sugar Liquors	-	4	-	-	Magnesium Hydroxide (aq)	-	4	2	4	Tetrochloroethylene
3	3	2	3	Carbolic Acid	-	3	2	3	Mercury	1	4	3	4	Toluene
1	1	3	1	Carbon Dioxide	-	1	3	1	Methane	-	1	-	-	Transformer Oil
1	1	2	1	Carbonic Acid	-	1	2	1	Methyl Acetate	-	1	-	-	Transmission Fluid Type A
1	2	1	2	Carbon Monoxide	-	1	2	1	Methyl Acrylate	3	4	-	3	Trichloroethane
3	4	2	2	Carbon Tetrachloride	-	3	4	2	Methyl Alcohol	3	4	3	4	Trichloroethylene
-	-	-	-	Castor Oil	-	1	-	-	Methyl Butyl Ketone	-	1	3	-	Turbine Oil
4	4	2	1	Chlorine (dry)	-	4	4	2	Methyl Chloride	1	4	3	2	Turpentine
4	4	1	1	Chlorine (wet)	-	4	4	-	Methylene Chloride	1	3	3	4	Varnish
3	4	3	4	Chloroform	-	3	4	3	Methyl Ethyl Ketone	1	4	2	1	Vinegar
4	4	4	4	Chlorox	-	4	4	-	Methyl Isobutyl Ketone	1	4	-	-	Vinyl Chloride
4	4	1	1	Chromic Acid	-	4	4	1	Milk	1	1	1	1	Water
1	1	1	2	Citric Acid	-	1	1	1	Mineral Oil	1	2	3	1	Whiskey
1	3	-	-	Coal Tar	-	1	3	-	Naphtha	-	1	-	-	White Oil
2	2	-	-	Coconut Oil	-	2	-	-	Naphthalene	-	3	-	-	Wood Oil
1	1	-	-	Cod Liver Oil	-	1	-	-	Natural Gas	-	4	3	4	Xylene
4	4	-	-	Coke Oven Gas	-	4	-	-	Neatsfoot Oil	2	4	3	4	Zinc Acetate (aq)
1	1	2	1	Copper Chloride (aq)	-	1	2	1	Nitric Acid (Conc.)	1	4	1	-	Zinc Chloride (aq)
-	-	-	-	Copper Chloride (aq)	-	1	2	1	Nitric Acid (Dilute)	1	1	-	1	
1	1	3	2	Com Oil	-	1	3	2	Nitroethane	-	-	-	-	
1	1	2	2	Cotton Seed Oil	-	1	2	2	Nitrogen	-	-	-	-	
4	4	3	4	Creosot	-	4	4	3	N-Octane	-	-	-	-	
1	1	2	4	Cychlohexane	-	1	1	2	Oleic Acid	-	-	-	-	
4	4	-	-	Denatured Aicohol	-	4	-	-	Oleum Spirits	-	-	-	-	
-	-	-	-	Detergent Solution	-	4	1	1	Olive Oil	-	-	-	-	
3	3	1	1	Diesel Oil	-	3	3	1	Oxygen-Cold	-	-	-	-	
4	4	-	-	Dioxane	-	4	-	-	Oxygen (200-400°F)	-	-	-	-	
3	3	-	-	Dowtherm Oil	-	3	-	-	Paint Thnner, Duco	-	-	-	-	
4	4	-	-	Dry Cleaning Fluids	-	4	-	-	Perchloric Acid	-	-	-	-	
3	3	-	4	Ethane	-	3	-	4	Perchloroethylene	-	-	-	-	
-	-	-	-	Ethyl Acrylate	-	4	-	-	Petrolenm-Below 250°F	-	-	-	-	
4	4	-	-	Ethyl Alcohol	-	3	4	-	Petroleum-Above 250 F	-	-	-	-	
4	4	-	-	Ethyl Benzine	-	4	4	-	Phenol	-	-	-	-	
2	2	-	-	Ethyl Cellulose	-	2	-	-	Phenyl Ethyl Ether	-	-	-	-	
2	2	-	-	Ethyl Chloronde	-	2	-	-	Phosphoric Acid-45%	-	-	-	-	
3	3	-	-	Ethyl Ether	-	3	-	-	Pickling Solution	-	-	-	-	

## NYLON 6, 12 & POLYURETHANE ETHER BASE/PE POLYETHYLENE/PVC POLYVINYL CHLORIDE

Please Note: The above ratings are very general guidelines and designed only to be used as an initial screening tool.

Careful testing under actual conditions essential. Accuracy for these ratings is not given or implied.

Ratings: 1. Little or no impact/  
2. Minor effect/ 3. Moderate effect/  
4. Severe effect.