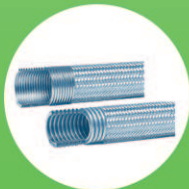


# TOZEN

# Hose Guide



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## DUCTING & VENTILATION

### S-161BL AIR DUCTING



Tube : Grey plasticized PVC - abrasion and ozone resistant-self extinguishing  
 Reinforcement : White shock resistant rigid PVC  
 Application : Air, gas, fume extraction, air conditioning and ventilation  
 Temperature : -10°C to +60°C  
 ID mm(inch) : 20(13/16), 25(1), 32(1 1/4), 38(1 1/2), 45(1 3/4), 51(2), 63(2 1/2), 76(3), 80(3 1/8), 102(4), 127(5), 152(6), 180(7 1/16), 203(8), 254(10), 305(12)  
 Coil Length : 50M. for ID20-102mm., 30M. for ID127-152mm., 20M. for ID180-203mm., 10M. for ID254-305mm.

### U-17100 AIR DUCTING



Tube : Transparent polyurethane - abrasion and ozone resistant  
 Reinforcement : Copper plated steel helix wire  
 Application : Air, gas, fume, powder and abrasive material suction  
 Temp : -40°C to +85°C  
 ID mm(inch) : 40(1 9/16), 51(2), 60(2 3/8), 63(2 1/2), 70(2 3/4), 76(3), 80(3 1/8), 102(4), 110(4 5/16), 120(4 3/4), 127(5), 140(5 1/2), 152(6), 160(6 5/16), 180(7 1/16), 203(8), 254(10), 305(12)  
 Coil Length : 20M. for ID40-90mm., 15M. for ID102-203mm., 10M. for ID254-305mm.

### S-174BB AIR DUCTING HIGH TEMPERATURE



Tube : Textile fabric coated with flame resistant PVC  
 Reinforcement : Steel helix wire  
 Application : Hot air, gas, fume suction, air conditioning and ventilation  
 Temp : -20°C to +100°C  
 ID mm(inch) : 40(1 9/16), 51(2), 60(2 3/8), 70(2 3/4), 76(3), 80(3 1/8), 90(3 9/16), 102(4), 120(4 3/4), 127(5), 140(5 1/2), 152(6), 160(6 5/16), 180(7 1/16), 203(8), 254(10), 305(12)  
 Coil Length : 10M.

## GAS & WELDING

### L-081AE WELDING



Tube : Black synthetic elastomer  
 Reinforcement : High tensile textile cords  
 Cover : Blue synthetic elastomer - abrasion and ozone resistant  
 Application : Oxygen welding  
 Pressure : 20 bar  
 Temperature : -10°C to +60°C  
 ID mm(inch) : 6(1/4), 8(5/16), 10(3/8)  
 Coil Length : 100M.

### L-081AH WELDING



Tube : Black synthetic elastomer  
 Reinforcement : High tensile textile cords  
 Cover : Red synthetic elastomer - abrasion and ozone resistant  
 Application : Acetylene welding  
 Pressure : 20 bar  
 Temperature : -10°C to +60°C  
 ID mm(inch) : 6(1/4), 8(5/16), 10(3/8)  
 Coil Length : 100M.

## COMPRESSED AIR

### P-191AK COMPRESSED AIR



Tube : Black plasticized PVC - oil mist resistant  
 Reinforcement : High tensile textile cords  
 Cover : Yellow ribbed plasticized PVC with longitudinal blue stripes - abrasion and ozone resistant  
 Application : Compressed air and general industrial applications. Also suitable for crop spraying of fertilizers, pesticides and weed killers.  
 Pressure : 20 bar  
 Temperature : -5°C to +60°C  
 ID mm(inch) : 8(5/16), 10(3/8), 13(1/2), 19(3/4), 25(1)  
 Coil Length : 100M.

### L-185AA COMPRESSED AIR



Tube : Black synthetic elastomer - oil mist resistant  
 Reinforcement : High tensile textile cords  
 Cover : Black synthetic elastomer with longitudinal yellow stripes - abrasion and ozone resistant  
 Application : Compressed air and general industrial applications  
 Pressure : 20 bar  
 Temperature : -10°C to +60°C  
 ID mm(inch) : 6(1/4), 8(5/16), 10(3/8), 13(1/2), 16(5/8), 19(3/4), 25(1)  
 Coil Length : 100M.

### L-185AK COMPRESSED AIR



Tube : Black synthetic elastomer - oil mist resistant  
 Reinforcement : High tensile textile cords  
 Cover : Yellow synthetic elastomer - abrasion and ozone resistant  
 Application : Compressed air and general industrial applications  
 Pressure : 20 bar  
 Temperature : -10°C to +60°C  
 ID mm(inch) : 13(1/2), 19(3/4), 25(1)  
 Coil Length : 100M.

### T-155AA COMPRESSED AIR HEAVY DUTY



Tube : Black SBR/NBR blend - oil mist resistant  
 Reinforcement : High tensile textile cords  
 Cover : Black SBR - abrasion and ozone resistant  
 Application : Compressed air designed for heavy duty applications  
 Pressure : 20 bar  
 Temperature : -30°C to +80°C  
 ID mm(inch) : 19(3/4), 22(7/8), 25(1), 32(1 1/4), 38(1 1/2), 51(2), 63(2 1/2), 76(3), 102(4)  
 Coil Length : 40M. for ID19, 25, 32, 38, 51mm., 20M. for ID22, 63, 76, 102mm.

### T-130AK COMPRESSED AIR STEEL CORDS



Tube : Black SBR/NBR blend - oil mist resistant  
 Reinforcement : High tensile steel cords  
 Cover : Yellow SBR - abrasion and ozone resistant - pin pricked  
 Application : High pressure compressed air for mine and quarries designed for long lasting service and maximum safety in heavy duty applications. Braided construction available in diameters 38mm. and 51mm.  
 Pressure : 40 bar for ID13-51mm., 30 bar for ID63-102mm.  
 Temperature : -30°C to +80°C  
 ID mm(inch) : 13(1/2), 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 51(2), 63(2 1/2), 76(3), 102(4)  
 Coil Length : 30.5M.

## HOT AIR

### T-902LE HOT AIR BLOWER HARD WALL



Tube : White EPDM - heat resistant  
 Reinforcement : High tensile textile cords with embedded steel helix wires  
 Cover : Blue EPDM - heat, abrasion and ozone resistant  
 Application : Hot air conveyance in pneumatic bulk food and material transfer from compressor to road tanker. Special construction for max flexibility.  
 Pressure : 10 bar  
 Temperature : -40°C to +180°C  
 ID mm(inch) : 42(1 5/8), 51(2), 53(2 1/16), 63(2 1/2), 76(3), 90(3 9/16)  
 Coil Length : 20M.

## WATER & LIQUIDS

### T-253AA WATER DISCHARGE LAY FLAT



Tube : Black Synthetic Elastomer  
 Reinforcement : High tensile textile cords  
 Cover : Black Synthetic Elastomer - abrasion and ozone resistant  
 Application : Lay flat water discharge in irrigation and general industrial applications.  
 Pressure : 10 bar  
 Temp : -30°C to +80°C  
 ID mm(inch) : 38(1 1/2), 51(2), 63(2 1/2), 76(3), 102(4), 152(6), 203(8)  
 Coil Length : 30.5M.

### T-203AA WATER SUCTION & DELIVERY



Tube : Black synthetic elastomer  
 Reinforcement : High tensile textile cords with embedded steel helix wires  
 Cover : Black synthetic elastomer - abrasion and ozone resistant  
 Application : Water suction and delivery in irrigation and general industrial applications  
 Pressure : 10 bar  
 Temp : -30°C to +80°C  
 ID mm(inch) : 25(1), 32(1 1/4), 38(1 1/2), 51(2), 63(2 1/2), 76(3), 102(4), 127(5), 152(6), 203(8), 254(10)  
 Coil Length : 40M. for ID25-51mm., 30.5M. for ID63-102mm., 6.1M. for ID127-254mm.

## HOT WATER & STEAM

### T-350AA HOT WATER & STEAM



Tube : Black EPDM  
 Reinforcement : High tensile textile cords  
 Cover : Black EPDM - heat, abrasion and ozone resistant  
 Application : Saturated steam and hot water delivery in general industrial applications  
 Pressure : 7 bar for steam, 15 bar for hot water  
 Temperature : -40°C to +165°C  
 ID mm(inch) : 13(1/2), 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 51(2)  
 Coil Length : 61M. for ID13mm., 40M. for ID19-51mm.

## HOT WATER & STEAM (cont.)

### T-330AH SATURATED STEAM



Tube : Black EPDM  
 Reinforcement : High tensile steel cords  
 Cover : Red EPDM - heat, abrasion and ozone resistant - pin pricked  
 Application : Saturated steam for use in refineries, shipyards, chemical plants and all industrial applications  
 Pressure : 17 bar  
 Temperature : -40°C to +208°C  
 ID mm(inch) : 13(1/2), 16(5/8), 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 51(2), 63(2 1/2), 76(3)  
 Coil Length : 61M. for ID13-51mm., 30.5M. for ID63-76mm.

### T-331AA SUPERHEATED STEAM



Tube : Black chlorobutyl  
 Reinforcement : High tensile steel cords  
 Cover : Black EPDM - heat, abrasion and ozone resistant - pin pricked  
 Application : Saturated and superheated steam for use in refineries, shipyards, chemical plants and all industrial applications  
 Pressure : 17 bar  
 Temperature : -40°C to +220°C  
 ID mm(inch) : 13(1/2), 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 51(2)  
 Coil Length : 30.5M.

## LIQUID & BULK FOOD

### P-49100 GENERAL PURPOSE FOOD QUALITY - PVC



Tube : Transparent non-toxic plasticized PVC  
 Reinforcement : High tensile textile cords  
 Cover : Non-toxic transparent plasticized PVC with longitudinal red stripes - abrasion and ozone resistant  
 Application : General purpose food quality. Also suitable for compressed air, chemicals and petroleum based products - see PVC chemical resistance chart  
 Pressure : 15 bar for ID6-10mm., 10 bar for ID13-25mm., 7 bar for ID32-38mm., 6 bar for ID51mm.  
 Temperature : -5°C to +60°C  
 ID mm(inch) : 6(1/4), 8(5/16), 10(3/8), 13(1/2), 16(5/8), 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 51(2)  
 Coil Length : 100M. for ID6-13mm., 50M. for ID16-51mm.

### S-4660L LIQUID FOOD SUCTION & DELIVERY STANDARD DUTY - PVC



Tube : Transparent plasticized PVC - abrasion and ozone resistant  
 Reinforcement : White shock resistant rigid PVC  
 Application : Liquid food and alcoholic beverages (up to 28% proof) suction and delivery  
 Pressure : 8 bar for ID20-25mm., 7 bar for ID32mm., 6 bar for ID38mm., 5 bar for ID51-76mm., 4 bar for ID102mm.  
 Temperature : -5°C to +60°C  
 ID mm(inch) : 20(13/16), 25(1), 32(1 1/4), 38(1 1/2), 51(2), 63(2 1/2), 76(3), 102(4)  
 Coil Length : 50M. for ID20-51mm., 25M. for ID63-102mm.



## LIQUID & BULK FOOD (cont.)

### S-47000 GENERAL PURPOSE

Tube : Transparent plasticized PVC-food quality, abrasion and ozone resistant

Reinforcement : Steel helix wire

Application : General purpose liquid food and chemicals suction and delivery

Pressure : 15 bar for ID10mm., 7 bar for ID13mm., 6 bar for ID16mm., 5 bar for ID20-25mm., 4 bar for ID32-38mm., 3 bar for ID45-51mm., 2 bar for ID63-152mm.

Temperature : -5°C to +60°C

ID mm(inch) : 10(3/8), 13(1/2), 16(5/8), 20(13/16), 22(7/8), 25(1), 32(1 1/4), 38(1 1/2), 45(1 3/4), 51(2), 63(2 1/2), 76(3), 102(4), 152(6)

Coil Length : 60M. for ID10-32mm., 30M. for ID38-102mm., 20M. for ID152mm.

### T-452LH LIQUID FOOD

Tube : White NR

Reinforcement : High tensile textile cords

Cover : Red SBR/EPDM blend - abrasion and ozone resistant

Application : Liquid food and alcoholic beverages delivery. Sterilisation with water and max 5% soda.

Pressure : 10 bar

Temperature : -30°C to +80°C

ID mm(inch) : 13(1/2), 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 51(2), 76(3), 102(4)

Coil Length : 61M. for ID13mm., 30.5M. for ID19-51mm., 20M. for ID76-102mm.

### T-402LH LIQUID FOOD

Tube : White NR

Reinforcement : High tensile textile cords with embedded steel helix wires

Cover : Red SBR/EPDM blend - abrasion and ozone resistant

Application : Liquid food and alcoholic beverages suction & delivery- special construction for max flexibility. Sterilisation with water and max 5% soda.

Pressure : 10 bar

Temp : -30°C to +80°C

ID mm(inch) : 25(1), 38(1 1/2), 51(2), 70(2 3/4), 76(3), 102(4)

Coil Length : 30.5M. for ID25-51mm., 20M. for ID70-102mm.

### T-405LE FAT FOOD

Tube : White NBR

Reinforcement : High tensile textile cords with embedded steel helix wires

Cover : Blue NBR/PVC blend - abrasion, ozone and oil resistant

Application : Alcoholic beverages, liquid, fat and oily foods suction and delivery. Special construction for maximum flexibility. Sterilisation with steam at 2.5 bar 130°C (266°F) max 30 minutes or with water and max 5% soda.

Pressure : 10 bar

Temp : -30°C to +80°C

ID mm(inch) : 19(3/4), 25(1), 38(1 1/2), 51(2), 63(2 1/2), 76(3)

Coil Length : 30.5M.

### T-720LA BULK FOOD

Tube : White NR - abrasion resistant

Reinforcement : High tensile textile cords with embedded steel helix wires - antistatic wire

Cover : Black conductive SBR/NR blend - abrasion and ozone resistant

Application : Bulk food and materials suction and delivery. Designed for grains, flour and plastic pellets transfer. Special construction for max flexibility.

Pressure : 10 bar

Temperature : -30°C to +80°C

ID mm(inch) : 76(3), 90(3 9/16), 102(4)

Coil Length : 30.5M.

## BULK MATERIAL

### T-720AA BULK MATERIAL SUCTION & DELIVERY

Tube : Black conductive NR - abrasion resistant

Reinforcement : High tensile textile cords with embedded steel helix wires

Cover : Black conductive SBR/NR blend - abrasion and ozone resistant

Application : Bulk material suction and delivery. Designed for dry cement, grains and animal feed transfer. Special construction for maximum flexibility.

Pressure : 10 bar for ID51-102mm., 5 bar for ID127mm.

Temperature : -30°C to +80°C

ID mm(inch) : 51(2), 63(2 1/2), 76(3), 102(4), 127(5)

Coil Length : 30.5M.

## CONCRETE, PLASTER, GUNITE & SANDBLAST

### T-750AA SANDBLAST

Tube : Black conductive NR - abrasion resistant

Reinforcement : High tensile textile cords

Cover : Black conductive SBR/NR blend - abrasion and ozone resistant - pin pricked

Application : Sandblast installations

Pressure : 10 bar

Temperature : -30°C to +80°C

ID mm(inch) : 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 51(2)

Coil Length : 40M.

### T-757AA PLASTER & CONCRETE

Tube : Black conductive NR - abrasion resistant

Reinforcement : High tensile textile cords

Cover : Black conductive SBR/NR blend - abrasion and ozone resistant

Application : Plaster and concrete pumping installations

Pressure : 40 bar

Temperature : -30°C to +80°C

ID mm(inch) : 25(1), 32(1 1/4), 35(1 3/8), 38(1 1/2), 51(2)

Coil Length : 40M.

### T-740AA CONCRETE PUMPING HEAVY DUTY

Tube : Black conductive NR - abrasion resistant

Reinforcement : High tensile steel cords

Cover : Black conductive SBR/NR blend - abrasion and ozone resistant

Application : Heavy duty high pressure concrete placement at casting site

Pressure : 85 bar

Temperature : -30°C to +80°C

ID mm(inch) : 51(2), 63(2 1/2), 76(3), 102(4), 127(5), 152(6)

Coil Length : 61M. for ID51-63mm., 20M. for ID76-152mm.

## ACIDS, CHEMICALS & MULTIPURPOSE

### L-984AH MULTIPURPOSE

Tube : Black synthetic elastomer

Reinforcement : High tensile textile cords

Cover : Red synthetic elastomer - abrasion, ozone and hydrocarbon resistant

Application : Compressed air, water, fuel and oil delivery in general industrial applications

Pressure : 20 bar

Temperature : -10°C to +60°C

ID mm(inch) : 6(1/4), 8(5/16), 10(3/8), 13(1/2), 16(5/8), 19(3/4), 25(1)

Coil Length : 100M.

## ACIDS, CHEMICALS & MULTIPURPOSE (cont.)

### T-505OG ACID & CHEMICAL SUCTION & DELIVERY



**Tube :** Transparent XLPE (cross linked polyethylene)  
**Reinforcement :** High tensile textile cords with embedded steel helix wires  
**Cover :** Green EPDM - abrasion and ozone resistant  
**Application :** Acid and chemical suction and delivery. Suitable for 90% of existing chemicals - see chemical resistance chart  
**Pressure :** 16 bar  
**Temp :** -20°C to +65°C  
**ID mm(inch) :** 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 51(2), 63(2 1/2), 76(3), 102(4)  
**Coil Length :** 30.5M.

### T-509OE ACID & CHEMICAL SUCTION & DELIVERY



**Tube :** Transparent UHMWPE (ultra high molecular weight polyethylene)  
**Reinforcement :** High tensile textile cords with embedded steel helix wires  
**Cover :** Blue EPDM - abrasion and ozone resistant  
**Application :** Acid and chemical suction and delivery. Suitable for 98% of existing chemicals - see chemical resistance chart  
**Pressure :** 16 bar  
**Temperature :** -20°C to +65°C  
**ID mm(inch) :** 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 40(19/16), 51(2), 60(2 3/8), 63(2 1/2), 76(3), 102(4)  
**Coil Length :** 30.5M.

## FUEL & OIL

### L-680AA FUEL & OIL DELIVERY



**Tube :** Black synthetic elastomer  
**Reinforcement :** High tensile textile cords - antistatic wire dia. 13mm and above  
**Cover :** Black synthetic elastomer - abrasion, ozone and hydrocarbon resistant  
**Application :** Low pressure or gravity fuel and oil transfer  
**Pressure :** 10 bar  
**Temperature :** -10°C to +60°C  
**ID mm(inch) :** 6(1/4), 8(5/16), 10(3/8), 13(1/2), 19(3/4), 25(1)  
**Coil Length :** 100M.

### L-671AA FUEL & OIL DELIVERY



**Tube :** Black NBR  
**Reinforcement :** High tensile textile cords  
**Cover :** Black synthetic rubber - abrasion, ozone and hydrocarbon resistant  
**Application :** Fuel and oil delivery  
**Pressure :** 16 bar  
**Temperature :** -25°C to +80°C  
**ID mm(inch) :** 5(3/16), 6(1/4), 8(5/16), 10(3/8), 13(1/2), 16(5/8), 19(3/4), 25(1)  
**Coil Length :** 100M. for ID5-19mm., 80M. for ID25mm.

### T-650AA FUEL & OIL DELIVERY



**Tube :** Black conductive NBR  
**Reinforcement :** High tensile textile cords  
**Cover :** Black conductive NBR/PVC blend - abrasion, ozone, hydrocarbon and fire resistant  
**Application :** Fuel and oil delivery with up to 50% aromatic content  
**Pressure :** 10 bar  
**Temperature :** -30°C to +80°C  
**ID mm(inch) :** 13(1/2), 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 45(1 3/4), 51(2), 63(2 1/2), 76(3), 102(4), 152(6)  
**Coil Length :** 61M. for ID13-51mm., 20M. for ID63-152mm.

## FUEL & OIL (cont.)

### T-605AA FUEL & OIL SUCTION & DELIVERY



**Tube :** Black conductive NBR  
**Reinforcement :** High tensile textile cords with embedded steel helix wires  
**Cover :** Black NBR/PVC blend - abrasion, ozone and hydrocarbon resistant  
**Application :** Fuel, oil and hydraulic fluids suction and delivery with up to 50% aromatic content. Specially designed for hydraulic oil return line.  
**Pressure :** 21 bar for ID19mm., 17 bar for ID25mm., 14 bar for ID32mm., 10 bar for ID38-203mm.  
**Temperature :** -30°C to +80°C  
**ID mm(inch) :** 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 42(1 5/8), 45(1 3/4), 48(1 7/8), 51(2), 60(2 3/8), 63(2 1/2), 70(2 3/4), 76(3), 80(3 1/8), 90(3 9/16), 102(4), 115(4 1/2), 120(4 3/4), 127(5), 152(6), 203(8)  
**Coil Length :** 30.5M.

### T-655AA FUEL & OIL DELIVERY



**Tube :** Black conductive NBR  
**Reinforcement :** High tensile textile cords  
**Cover :** Black conductive NBR/PVC blend - abrasion, ozone, hydrocarbon and fire resistant  
**Application :** Fuel and oil delivery with up to 50% aromatic content. Designed for long lasting service in heavy duty applications.  
**Pressure :** 16 bar  
**Temperature :** -30°C to +70°C  
**ID mm(inch) :** 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 51(2), 63(2 1/2), 76(3), 102(4), 152(6), 203(8)  
**Coil Length :** 61M. for ID19-38mm., 30.5M. for ID51-203mm.

### T-609AA FUEL & OIL SUCTION & DELIVERY



**Tube :** Black conductive NBR  
**Reinforcement :** High tensile textile cords with embedded steel helix wires  
**Cover :** Black conductive NBR/PVC blend - abrasion, ozone, hydrocarbon and flame resistant  
**Application :** Fuel and oil suction and delivery with up to 50% aromatic content. Designed for long lasting service in heavy duty applications  
**Pressure :** 16 bar  
**Temperature :** -30°C to +70°C  
**ID mm(inch) :** 25(1), 32(1 1/4), 38(1 1/2), 51(2), 63(2 1/2), 76(3), 102(4), 152(6)  
**Coil Length :** 61M. for ID25-38mm., 30.5M. for ID51-152mm.

### T-659AA LPG DELIVERY



**Tube :** Black NBR  
**Reinforcement :** Braided high tensile textile cords - antistatic wire  
**Cover :** Black NBR/PVC blend - abrasion, ozone, hydrocarbon and fire resistant - pin pricked  
**Application :** LPG delivery  
**Pressure :** 25 bar  
**Temperature :** -30°C to +70°C  
**ID mm(inch) :** 19(3/4), 25(1), 32(1 1/4), 38(1 1/2), 51(2)  
**Coil Length :** 61M.

## DANCHEM CHEMICAL HOSE



**Danchem PG** **Application** : Suction discharge and vacuum applications for acids, alkalis, solvents and petroleum products.

**Danchem PS**

**Danchem SG** **Temperature** : -20°C to +80°C

**Danchem SS** **Max Length** : 20M. (66 ft.)

| BORE DIAMETER |     | MAX WORKING PRESSURE |     | BENDING RADIUS |     | WEIGHT |       |
|---------------|-----|----------------------|-----|----------------|-----|--------|-------|
| INS           | MM  | BAR                  | PSI | INS            | MM  | KG/M   | LB/FT |
| 1             | 25  | 14                   | 200 | 4.0            | 100 | 0.8    | 0.5   |
| 1.5           | 38  | 14                   | 200 | 5.5            | 140 | 1.2    | 0.8   |
| 2             | 50  | 14                   | 200 | 7.0            | 180 | 1.9    | 1.3   |
| 2.5           | 65  | 14                   | 200 | 8.0            | 205 | 2.5    | 1.7   |
| 3             | 75  | 14                   | 200 | 11.0           | 280 | 3.0    | 2.0   |
| 4             | 100 | 14                   | 200 | 15.5           | 395 | 4.8    | 3.2   |



**Danchem PG** **Application** : Heavy duty chemical suction discharge hose for greater mechanical strength.

**Danchem PS**

**Danchem GG** **Temperature** : -20°C to +80°C

**Danchem SS** **Max Length** :  
Dia. 1" - 8" : 20M. (66 ft.)  
Dia. 10" : 12M. (40 ft.)

| BORE DIAMETER |     | MAX WORKING PRESSURE |     | BENDING RADIUS |     | WEIGHT |       |
|---------------|-----|----------------------|-----|----------------|-----|--------|-------|
| INS           | MM  | BAR                  | PSI | INS            | MM  | KG/M   | LB/FT |
| 4             | 100 | 14                   | 200 | 16.0           | 405 | 6.4    | 4.3   |
| 6             | 150 | 14                   | 200 | 20.0           | 510 | 10.7   | 7.2   |
| 8             | 200 | 14                   | 200 | 30.0           | 760 | 15.0   | 10.0  |
| 10            | 250 | 10.5                 | 150 | 36.0           | 915 | 20.5   | 13.7  |

## DANOIL PETROCARBON HOSE

**Temperature** : -20°C to +80°C (For all Danoil models.)



**Danoil 3** : For road tanker and in plant transfer of petrol and oil products.

**Max Length** : 20M. (66 ft.)

| BORE DIAMETER |     | MAX WORKING PRESSURE |     | BENDING RADIUS |     | WEIGHT |       |
|---------------|-----|----------------------|-----|----------------|-----|--------|-------|
| INS           | MM  | BAR                  | PSI | INS            | MM  | KG/M   | LB/FT |
| 1             | 25  | 10.5                 | 150 | 4.0            | 100 | 0.8    | 0.5   |
| 1.5           | 38  | 10.5                 | 150 | 5.0            | 125 | 1.1    | 0.7   |
| 2             | 50  | 10.5                 | 150 | 6.0            | 150 | 1.6    | 1.1   |
| 2.5           | 65  | 10.5                 | 150 | 7.0            | 180 | 2.1    | 1.4   |
| 3             | 75  | 10.5                 | 150 | 8.0            | 205 | 2.5    | 1.7   |
| 4             | 100 | 10.5                 | 150 | 10.5           | 265 | 3.6    | 2.4   |



**Danoil 3AL** : (with aluminium inner wire) for petrol forecourt deliveries.

**Max Length** : 20M. (66 ft.)

| BORE DIAMETER |     | MAX WORKING PRESSURE |     | BENDING RADIUS |     | WEIGHT |       |
|---------------|-----|----------------------|-----|----------------|-----|--------|-------|
| INS           | MM  | BAR                  | PSI | INS            | MM  | KG/M   | LB/FT |
| 2.5           | 65  | 10.5                 | 150 | 7.0            | 180 | 1.6    | 1.1   |
| 3             | 75  | 10.5                 | 150 | 8.0            | 205 | 1.7    | 1.1   |
| 4             | 100 | 10.5                 | 150 | 10.5           | 265 | 2.4    | 1.6   |
| Rail Car 4"   | 100 | 10.5                 | 150 | 11.5           | 290 | 3.5    | 2.3   |



**Danoil 7** : For discharge of all oil and petroleum.

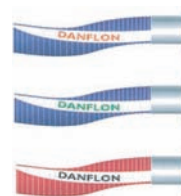


**Danoil 9** : (with Polyamide lining) for MTBE and unleaded petrol.

**Max Length** : Dia 1" to 8" : 20M. (66 ft.)  
Dia 10" : 12M. (40 ft.)

| BORE DIAMETER |     | MAX WORKING PRESSURE |     | BENDING RADIUS |     | WEIGHT |       |
|---------------|-----|----------------------|-----|----------------|-----|--------|-------|
| INS           | MM  | BAR                  | PSI | INS            | MM  | KG/M   | LB/FT |
| 1             | 25  | 14                   | 200 | 4.0            | 100 | 0.8    | 0.5   |
| 1.5           | 38  | 14                   | 200 | 5.5            | 140 | 1.2    | 0.8   |
| 2             | 50  | 14                   | 200 | 7.0            | 180 | 1.9    | 1.3   |
| 2.5           | 65  | 14                   | 200 | 8.0            | 205 | 2.5    | 1.7   |
| 3             | 75  | 14                   | 200 | 11.0           | 280 | 3.0    | 2.0   |
| 4             | 100 | 14                   | 200 | 15.5           | 395 | 5.2    | 3.5   |
| 4             | 100 | 14                   | 200 | 16.0           | 405 | 6.4    | 4.3   |
| 6             | 150 | 14                   | 200 | 20.0           | 510 | 10.7   | 7.2   |
| 8             | 200 | 14                   | 200 | 30.0           | 760 | 15.0   | 10.0  |
| 10            | 250 | 10.5                 | 150 | 36.0           | 915 | 20.5   | 13.7  |

## DANFLON PTFE HOSE



**Danflon SG**

**Danflon SS**

**Danflon GG**

**Danflon SGA**

**Danflon SSA**

**Danflon GGA**

**Application** : Discharge of aggressive chemicals and searching solvents. (SGA, SSA, GGA - High temperature hose)

**Temperature** : -20°C to +80°C

**Max Length** : Dia 1" to 8" : 20M. (66 ft.)  
Dia 10" : 12M. (40 ft.)

| BORE DIAMETER |     | MAX WORKING PRESSURE |     | BENDING RADIUS |     | WEIGHT |       |
|---------------|-----|----------------------|-----|----------------|-----|--------|-------|
| INS           | MM  | BAR                  | PSI | INS            | MM  | KG/M   | LB/FT |
| 1             | 25  | 14                   | 200 | 4.0            | 100 | 0.8    | 0.5   |
| 1.5           | 38  | 14                   | 200 | 5.5            | 140 | 1.2    | 0.8   |
| 2             | 50  | 14                   | 200 | 7.0            | 180 | 1.9    | 1.3   |
| 2.5           | 65  | 14                   | 200 | 8.0            | 205 | 2.5    | 1.7   |
| 3             | 75  | 14                   | 200 | 11.0           | 280 | 3.0    | 2.0   |
| 4             | 100 | 14                   | 200 | 15.5           | 395 | 5.2    | 3.5   |
| 4             | 100 | 14                   | 200 | 16.0           | 405 | 6.4    | 4.3   |
| 6             | 150 | 14                   | 200 | 20.0           | 510 | 10.7   | 7.2   |
| 8             | 200 | 14                   | 200 | 30.0           | 760 | 15.0   | 10.0  |
| 10            | 250 | 14                   | 200 | 36.0           | 915 | 20.5   | 13.7  |

## DANCHEM CRYOGENIC HOSE



**Danchem PA**

**Application** : Heavy duty for marine applications.

**Temperature** : -200°C to +80°C

**Max Length** : Dia 1" to 8" : 20M. (66 ft.)

| BORE DIAMETER |     | MAX WORKING PRESSURE |     | BENDING RADIUS |     | WEIGHT |       |
|---------------|-----|----------------------|-----|----------------|-----|--------|-------|
| INS           | MM  | BAR                  | PSI | INS            | MM  | KG/M   | LB/FT |
| 1             | 25  | 25                   | 370 | 4.0            | 100 | 1.0    | 0.7   |
| 1.5           | 38  | 25                   | 370 | 5.5            | 140 | 1.5    | 1.0   |
| 2             | 50  | 25                   | 370 | 7.0            | 180 | 2.5    | 1.7   |
| 2.5           | 65  | 25                   | 370 | 8.0            | 205 | 3.3    | 2.2   |
| 3             | 75  | 25                   | 370 | 11.0           | 280 | 4.5    | 3.0   |
| 4             | 100 | 21                   | 300 | 15.5           | 395 | 7.5    | 5.0   |
| 6             | 150 | 21                   | 300 | 20.0           | 510 | 13.5   | 9.0   |
| 8             | 200 | 15                   | 225 | 30.0           | 760 | 18.5   | 12.4  |



## SMOOTH BORE PTFE HOSE

### FHL (Light Wall)

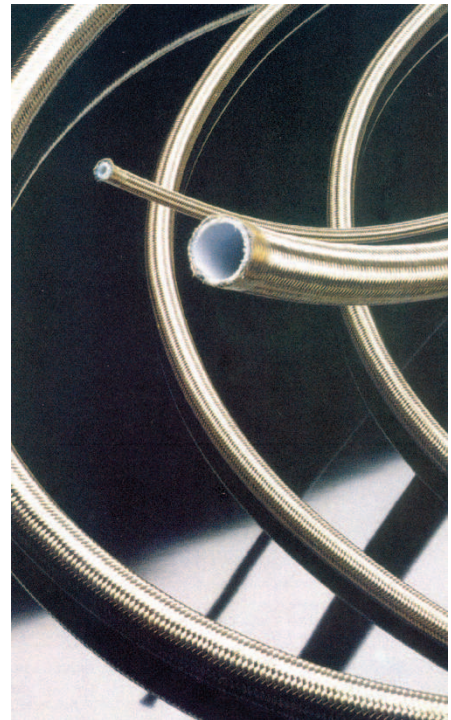
| DN |       | Wall Thk | int.Ø | ext.Ø | Weight | Pressure 20°C KG/cm² |       | Min. Bend Radius |
|----|-------|----------|-------|-------|--------|----------------------|-------|------------------|
| mm | inch  |          |       |       |        | exercise             | burst |                  |
| 5  | 3/16  | 0.7      | 4.8   | 7.4   | 69     | 200                  | 800   | 35               |
| 6  | 1/4   | 0.7      | 6.35  | 8.9   | 87     | 175                  | 700   | 45               |
| 8  | 5/16  | 0.7      | 8     | 10.9  | 126    | 150                  | 600   | 50               |
| 9  | 3/8   | 0.7      | 9.5   | 12.4  | 145    | 135                  | 540   | 55               |
| 10 | 13/32 | 0.7      | 10.35 | 13.3  | 158    | 130                  | 520   | 65               |
| 13 | 1/2   | 0.7      | 12.7  | 15.7  | 212    | 120                  | 480   | 70               |
| 16 | 5/8   | 0.9      | 16    | 19.1  | 260    | 110                  | 440   | 130              |
| 20 | 3/4   | 0.9      | 19    | 22.2  | 321    | 90                   | 360   | 190              |
| 22 | 7/8   | 0.9      | 22.2  | 25.7  | 355    | 70                   | 280   | 250              |
| 25 | 1     | 1        | 25.4  | 29.3  | 450    | 65                   | 260   | 270              |
| 29 | 1 1/8 | 1        | 28.6  | 32.5  | 525    | 55                   | 220   | 300              |

### FHM (Medium Wall)

| DN |       | Wall Thk | int.Ø | ext.Ø | Weight | Pressure 20°C KG/cm² |       | Min. Bend Radius |
|----|-------|----------|-------|-------|--------|----------------------|-------|------------------|
| mm | inch  |          |       |       |        | exercise             | burst |                  |
| 3  | 1/8   | 1        | 3.2   | 6.5   | 70     | 275                  | 1150  | 25               |
| 5  | 3/16  | 1        | 4.8   | 7.8   | 83     | 200                  | 800   | 35               |
| 6  | 1/4   | 1        | 6.35  | 9.4   | 104    | 175                  | 700   | 45               |
| 8  | 5/16  | 1        | 8     | 11.3  | 141    | 150                  | 600   | 50               |
| 9  | 3/8   | 1        | 9.5   | 12.8  | 166    | 135                  | 540   | 55               |
| 10 | 13/32 | 1        | 10.35 | 13.7  | 184    | 140                  | 520   | 65               |
| 13 | 1/2   | 1        | 12.7  | 16.2  | 244    | 120                  | 480   | 70               |
| 16 | 5/8   | 1        | 16    | 19.5  | 300    | 110                  | 440   | 130              |
| 20 | 3/4   | 1        | 19    | 22.6  | 367    | 90                   | 360   | 190              |
| 22 | 7/8   | 1        | 22.2  | 26.2  | 409    | 70                   | 280   | 250              |
| 25 | 1     | 1.1      | 25.4  | 29.7  | 503    | 65                   | 260   | 270              |
| 29 | 1 1/8 | 1.1      | 28.6  | 33    | 585    | 55                   | 200   | 300              |

### FHH (Heavy Wall)

| DN |       | Wall Thk | int.Ø | ext.Ø | Weight | Pressure 20°C KG/cm² |       | Min. Bend Radius |
|----|-------|----------|-------|-------|--------|----------------------|-------|------------------|
| mm | inch  |          |       |       |        | exercise             | burst |                  |
| 3  | 1/8   | 1.2      | 3.2   | 6.7   | 85     | 285                  | 1150  | 80               |
| 5  | 3/16  | 1.2      | 4.8   | 8.6   | 105    | 248                  | 990   | 70               |
| 6  | 1/4   | 1.2      | 6.35  | 9.9   | 126    | 200                  | 800   | 100              |
| 8  | 5/16  | 1.2      | 8     | 12    | 172    | 170                  | 880   | 120              |
| 9  | 3/8   | 1.2      | 9.5   | 13.4  | 207    | 160                  | 640   | 130              |
| 10 | 13/32 | 1.2      | 10.35 | 14.3  | 223    | 145                  | 580   | 140              |
| 13 | 1/2   | 1.2      | 12.7  | 16.7  | 293    | 130                  | 520   | 160              |
| 16 | 5/8   | 1.3      | 16    | 20.1  | 360    | 120                  | 480   | 190              |
| 20 | 3/4   | 1.3      | 19    | 23.4  | 423    | 95                   | 380   | 230              |
| 22 | 7/8   | 1.3      | 22.2  | 26.7  | 510    | 75                   | 300   | 260              |
| 25 | 1     | 1.4      | 25.4  | 30.3  | 640    | 70                   | 280   | 310              |
| 29 | 1 1/8 | 1.4      | 28.6  | 33.8  | 723    | 60                   | 275   | 400              |



Inner Tube : PTFE  
Reinforcement : SUS304 braided

#### Application :

- Steam for ironing and cleaning
- Plastic moulding presses
- Coolant lines for canning machines
- Transport of corrosive chemical, food and pharmaceutical products
- Compressors discharge line
- Transport of air, oil and petrol in the car motorcycle and shipyard fields
- Air conditioning plants
- Automatic painting plants

Temperature : -60°C to +260°C (static -200°C)

## CONVOLUTED PTFE HOSE BRAIDED AISI304



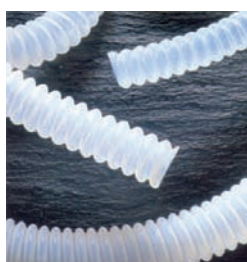
| Type | DN    | int.Ø (mm) |      | ext.Ø (mm) |        | Min. Bend Radius (mm) | Max Pressure (bar) | Burst Pressure (bar) |
|------|-------|------------|------|------------|--------|-----------------------|--------------------|----------------------|
|      |       | Min        | Max  | Min        | Max    |                       |                    |                      |
| CLWB | 3/8   | 10         | 11   | 15         | 16.2   | 20                    | 130                | 520                  |
| CLWB | 1/2   | 13         | 14   | 18         | 19     | 25                    | 100                | 400                  |
| CLWB | 5/8   | 16         | 17   | 22         | 23     | 50                    | 80                 | 320                  |
| CLWB | 3/4   | 19.5       | 20.5 | 26         | 27.5   | 65                    | 70                 | 280                  |
| CLWB | 7/8   | 22         | 23   | 28         | 29.5   | 75                    | 60                 | 240                  |
| CLWB | 1     | 25.5       | 26.5 | 33         | 34.5   | 89                    | 55                 | 220                  |
| CLWB | 1 1/4 | 31.5       | 32.5 | 38         | 39.4   | 110                   | 55                 | 220                  |
| CLWB | 1 1/2 | 37.5       | 38.5 | 44.5       | 45.9   | 120                   | 50                 | 200                  |
| CLWB | 2     | 50.5       | 51.5 | 57         | 58.4   | 110                   | 40                 | 160                  |
| CLWB | 3     | 71.2       | 78.8 | 89.5       | 98.7   | 310                   | 20                 | 80                   |
| CLWB | 4     | 95         | 105  | 120.7      | 131.25 | 380                   | 15                 | 60                   |

#### Application :

- Plastic moulding presses
- Coolant lines for canning machines
- Coolant lines for gas and chlorine cylinders
- Transport of corrosive chemical, food and pharmaceutical products
- Compressors discharge line
- Transport of air, oil and petrol in the car motorcycle and shipyard fields

Temperature : -73°C to +260°C

## CONVOLUTED PTFE TUBE



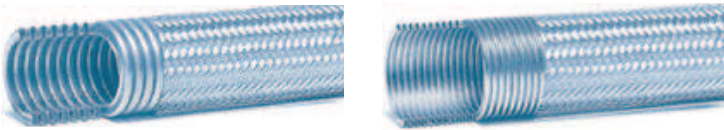
| Type | DN    | int.Ø (mm) | ext.Ø (mm) | Max Pressure (bar) | Burst Pressure (bar) |
|------|-------|------------|------------|--------------------|----------------------|
| CLW  | 3/8   | 10         | 14.5       | 9                  | 27                   |
| CLW  | 1/2   | 13         | 17.9       | 8                  | 24                   |
| CLW  | 5/8   | 16         | 21.5       | 8                  | 24                   |
| CLW  | 3/4   | 19         | 25.5       | 6                  | 18                   |
| CLW  | 7/8   | 22         | 28.1       | 6                  | 18                   |
| CLW  | 1     | 25.4       | 31.8       | 5                  | 15                   |
| CLW  | 1 1/4 | 32         | 36.5       | 4                  | 12                   |
| CLW  | 1 1/2 | 38.5       | 44         | 4                  | 12                   |
| CLW  | 2     | 51         | 58         | 3                  | 9                    |

#### Application :

- Plastic moulding presses
- Coolant lines for canning machines
- Coolant lines for gas and chlorine cylinders
- Transport of corrosive chemical, food and pharmaceutical products
- Compressors discharge line
- Transport of air, oil and petrol in the car motorcycle and shipyard fields

Temperature : -73°C to +260°C

**CONVOLUTED STAINLESS STEEL HOSE , ANNULAR and SPIRAL**



**Application :** Oil, water, hot water, steam, gas, air, chemicals

**Size :** 15A - 200A for Annular, and 8A - 80A for Spiral

**Remarks :** Pls contact us for further information.

**HOSE FITTINGS and ACCESSORIES**



**Camlock Part-A**  
Material : Aluminium  
Stainless Steel



**Camlock Part-B**  
Material : Aluminium  
Stainless Steel



**Camlock Part-C**  
Material : Aluminium  
Stainless Steel



**Camlock Part-D**  
Material : Aluminium  
Stainless Steel



**Camlock Part-DC**  
Material : Aluminium  
Stainless Steel



**Camlock Part-DP**  
Material : Aluminium  
Stainless Steel



**Camlock Part-E**  
Material : Aluminium  
Stainless Steel



**Camlock Part-F**  
Material : Aluminium  
Stainless Steel



**Pin Lug Swivel Nut**  
Standard Thread : NPS, BSP  
Material : Brass, Ductile Iron  
Working Pressure : 150 psi.



**Pin Lug Coupling**  
Standard Thread : NPS, BSP  
Material : Brass, Ductile Iron  
Working Pressure : 150 psi.



**Combination Nipple**  
Standard Thread : NPS, BSP  
Material : Galvanized Steel,  
Stainless Steel  
Working Pressure : 150 psi.



**Flange**  
Standard : JIS10K, ANSI150  
(Pls contact us for other flange standards.)  
Material : Mild Steel  
Working Pressure : 150 psi.



**Double Bolt Clamp**  
Material : Ductile Iron  
Working Pressure : 75 psi.



## CONNECTION METHODS between RUBBER HOSE and FITTINGS

**Caution!** *Because the hose/coupling interface is critical to hose assembly performance, always follow the specific instruction of hose and coupling suppliers regarding the match of hose/fittings and assembly procedures. Failure to follow proper instructions or failure to use trained personnel might be dangerous and could result in damage to property and serious bodily injury.*

The usefulness of a hose is enhanced by the proper selection of couplings. Couplings are attached to the ends of hose in order to facilitate connection to a pressure source. To make this transition successful, the coupling termination must provide a leak proof seal and the hose/coupling interface must be properly matched.

The hose/coupling interface is not as straightforward. Because of difficulty in making the transition between rigid and high modulus materials such as metal to flexible and low modulus materials such as rubber, numerous coupling configurations have evolved. The following 2 types of connection methods between rubber and other elastomer hoses and hose fittings are available from Tozen.



**1) Bolt Clamping :** For this type, hose fittings shall be connected to rubber hoses by clamping the rubber hose with bolt clamps. This connection method is for medium working pressure service, and should not be used at pressure higher than 125psi disregard pressure rating of the hose.

### Advantages of Crimped-On Rubber Hose

- More secure and reliable hose/fitting connection than band and bolt clamping
- More reliable for petroleum or chemical pressurized transfer
- No pullout accident
- One-Year full warranty
- Test certificate from the authorized and qualified supplier
- Maintenance program

**2) Crimping or swaging :** For this type, hose fittings shall be connected to rubber hoses using a crimping machine operated by a well-trained personnel. The connection is done by crimping or compressing a ferrule radially by a number of finger toward the hose axis. This connection method is versatile since crimped assemblies can be made with low-pressure hose, as well as high-pressure hydraulic hoses. This connection method is one of the best available for rubber hoses used for pressurized transfer in tank truck and general applications. Furthermore, it features very consistent connection quality, since crimping is done mainly by machine, and human error is minimized. All hoses with this connection type shall be factory-tested at 1.5 times the required working pressure, and a test product certificate shall be provided with each hose. An accidental pullout of hose fittings can be avoided by using this type!



Crimping or swaging assembled hoses are well accepted by major companies for off-shore and in-plant applications. Only by crimping with suitable hose fitting can guarantee the rubber hose lives up to its designated pressure rating. (150psi or higher)

**Remark :** Tolerance on length for hose assembly is +3%, -1%

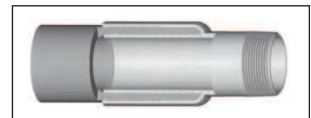
## LOCAL ASSEMBLY, INSPECTION and CERTIFICATION, WARRANTY and REPAIR

As a well-established company with long reputation in the market for almost 30 years, quality and attempts to bring better solutions to customers are our most important concerns. This is not because of our ISO 9001:2000 certificate, but our business philosophies since our company was established. The ISO 9001:2000 certificate is merely a result of the philosophies.

Tozen has invested for a highly sophisticated crimping machine, so we can make local assemblies for high quality crimped-on industrial hoses. This machine is used for assembling rubber hoses and Dantec composite hoses with various fittings. With this machine, it can ensure that delivery and repair can be much more flexible and faster. New hoses assembled by Tozen, subject to our standard terms and conditions, shall be under one-year warranty term after purchase. Repaired hose at six months warranty.



To achieve our quality standard, we know that, in the field of industrial hoses, quality of products is not enough. Well-trained, qualified assembly and after sales service staff is another key factor to provide top quality industrial hoses. Our staffs in Assembly and After-Sales Service Division were sent for training in U.K. to learn how to do quality crimping and standard industrial hose testing. All staffs, who perform hose assembly and testing, are certified by Dantec, who is one of the world leading manufacturers in the industrial hose field and a recognized member of British Standard, to issue industrial hose certificates. So, our customers can be confident that every single unit of industrial hoses delivered to them shall be of universal quality. All hoses shall be delivered with unique identification marks for hose maintenance tracking purposes. In other words Tozen supplies locally-assembled stainless steel hoses, rubber hoses and composite hoses with inspection and certification according to the relevant international standard.



### How do you correctly select and maintain the hose?

As all reputable hose suppliers know, working life of industrial hoses does not wholly rely on the quality of hoses. The more important is on the correct handling and installation; for example, how to avoid undue strain on the end fittings and mechanical damage during use. It is important that these are seen and understood by those actually use the hose. Well-trained technical staffs of Tozen provide professional information for proper selection of industrial hoses for various applications, correct handling and installation.

In order to ensure that hoses provide a safe service, it is critical that any damage or severe signs of deterioration are detected before hose failure occurs during operations. So, periodic checks by visual inspection, pressure tests, and electrical conductivity should be carried out continuously. With this fact, our certified hose maintenance staffs shall make scheduled calls to remind our customers for periodic checks. This maintenance service is done following the Hose Management Program, which has been successfully recognized in U.K. and other parts of the world. Any hoses, that fail during checking process, shall be repaired if possible. Under this program, a test and inspection certificate issued by our certified staffs shall accompany all hoses that pass our checks and repairs. Our customers can ensure that their hoses shall always be in the condition ready for uses. We do not limit this service to only hoses bought from us. Hoses purchased from other suppliers are welcomed for this program.



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**TOZEN (THAILAND) CO., LTD.**

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SAITAMA 342-0008 JAPAN  
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FAX : (048) 993-1028