



Designed in October 2015.



HAN YANG CHEMICAL

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Perfect To Keep **POLYTOP SEAL®**

- Continued resilience
- Effects of clean SEAL
- Fast work and economy
- Sealed maintenance

www.hanyangchemical.com



INTRODUCTION

1 ePTEE POLYTOP SEAL® (JOINT SEALANT)

2 ePTEE Gasket Tape

3 ePTEE NASA SEAL® (Thread Seal Tape)

4 PVC Magic Tape



HISTORY

- 2015_ November** Obtained TÜV Certificate (MUC-KSP-A 066) and completed test of FDA 21 CFR 177.1550 for POLYTOP SEAL®
- 2015_ March** Obtained ISO 9001
- 2007_ September** Completed test of RoHS
- 2005_ August** Renamed as "HAN YANG CHEMICAL CO., LTD." and obtained Q Mark for PVC Film and PVC MAGIC TAPE
- July** Head Office & Factory moved for additional manufacturing line & GIMPO Factory moved to new factory
- 2001_ February** Built new manufacturing lines for each of PVC Film and PVC Magic Tape in GIMPO Factory
- 1997_ December** Completed test for POLYTOP SEAL® and obtained certificate from PVRC-TTRL (North-America), and obtained certificate of ABS (US)
- January** Built additional 1 manufacturing line for each of POLYTOP SEAL® and NASA SEAL®
- 1996_ March** Built additional 1 manufacturing line for POLYTOP SEAL
- 1995_ September** Completed test for POLYTOP SEAL® and obtained certificate from DVGW (Germany)
- 1991_ February** Built additional 2 manufacturing lines for NASA SEAL®, and Built a new manufacturing line for Gasket Tape
- 1990_ September** Head Office & Factory moved for additional manufacturing lines
- 1988_ June** Built additional 2 manufacturing lines for NASA SEAL®
- 1987_ April** Completed development and commercialisation for POLYTOP SEAL®
- 1986_ March** Head Office & Factory moved for additional manufacturing. Renamed as "HAN YANG CHEMICAL", built new manufacturing line for POLYTOP SEAL®
- 1983_ April** Started to produce NASA SEAL® for piping and HAN YANG Teflon established

1 ePTFE POLYTOP SEAL® (JOINT SEALANT)

Expanded P.T.F.E. POLYTOP SEAL® is the product developed through special expansion of 100% Poly Tetra Fluoro Ethylene. It is soft and resilient for maximised sealing effect but also the satisfactory maintenance of creeping property even in harsh environments such as heat, cold, chemicals, shock and vibration etc., which has supplemented all drawbacks of gaskets. Also, the products come in oval, circular and square shapes.

✓ Application

- Materials : Glass, Plastic, FRP, Ceramic and Steel etc,
- Flanges : All type of flange, large and complex geometries,
- Components : Expansion Joint, pipelines, pumps, machine housing, apparatus, hand and manholes.

✓ Technical Data



Melting Point	327°C
Application Temp.	-230~ 260°C
Application Pressure	Gas 20kg/cm ² (280 PSI) Liquid 50kg/cm ² (700 PSI)
Elongation	20 ~ 30 %
Tensile Strength	1.40kgf/mm ² (2,000 PSI)
Chemical Resistance	Resistant to all type of chemicals (except melted alkali metals and fluorine)
Compressibility	70% ±5
PH Range	0 ~ 14

✓ Certificate and Test

- Tested according to TÜV MUC-KSP-A066 (Germany) and DVGW VP403 (Germany)
- Tested by PVRC-TTRL
- Certified from ABS (US)
- Complied with FDA 21 CFR 177.1550

✓ Quality

- All manufacturing and quality control processes for our company products conform to ISO 9001:2008.

2 ePTFE Gasket Tape

Expanded P.T.F.E. Gasket Tape is the product developed through special expansion of 100% Poly Tetra Fluoro Ethylene. It is soft and resilient for maximised sealing effect but also the satisfactory maintenance of creeping property even in harsh environments such as heat, cold, chemicals, shock and vibration etc., which has supplemented all drawbacks of gaskets..

✓ Application

- Materials: Glass, Plastic, FRP, Ceramic and Steel etc,
- Flanges: All type of flange, large and complex geometries,
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3 ePTFE NASA SEAL® (Thread Seal Tape)

Expanded P.T.F.E. NASA SEAL® Tape, developed with 100% of Poly Tetra Fluoro Ethylene, is Processed for softness and resilience, to be used as tape for piping of water, gas, oil, steam and for heating and cooling. It strongly seals the connections of thread pipes and prevents The corrosion of threads. Also, due to the special feature of P.T.F.E., it is very strong against harsh environments such as heat, cold, chemicals, shock and vibration etc.

Application

- All treaded connections for water, gas, oil, steam, heating and cooling systems.



Technical Data

Melting Point	327°C	Tensile Strength	0.85kgf/mm ² (1,200 PSI)
Application Temp.	-230 ~ 260°C	Flammability	Non-flammable
Application Pressure	Gas 20kg/cm ² (280 PSI) Liquid 50kg/cm ² (700 PSI)	Chemical Resistance	Resistant to all type of chemicals (except melted alkali metals and fluorine)
Elongation	20 ~ 30 %	PH Range	0 ~ 14

Quality

- All manufacturing and quality control processes for our company products conform to ISO 9001:2008.

4 PVC MAGIC Tape

PVC Magic Tape is a finishing material for heat or cold resistance of which the functions may be taken lightly, but it can prevent big accidents such as fires that are directly related to human life. its features are non-flammability, outstanding tensil strength, tearing strength, elongation, durability, weather protection and clarity etc., the properties for fire protection

Application

-Finishing material for piping of water, gas, oil, steam, heat and cooling system



Technical Data

Tensile Strength	196kgf/cm ²
Elongation	30%
Tearing Strength	72kfg/cm
Flammability	VTM-0

Standard Size

Product Code	Size (Wmm X Tmm X Lm)
MT-100 - Color	100 X 0.15 X 15
MT-150 - Color	150 X 0.15 X 15

* Other size can be available on request.

Product Color

- Blue, Red, Grey, Green, Yellow, Beige, Black, Light Red, White