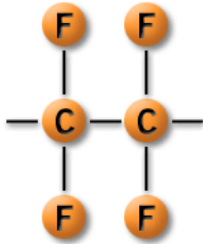




Manufacturer of Sterling Brand PTFE PolyTetraFluoroEthylene Un-sintered Products



About Hindustan Nylons:-

Hindustan Nylons is lending ISO 9001-2015 manufacturer, supplier & exporter of PTFE Un-sintered Products, from Miraj, Sangli District, Maharashtra state In India.

Hindustan Nylons manufactures various Sterling brand Un-sintered PTFE Products such as PTFE Thread Seal Tape, PTFE Joint sealant Tape with adhesive backing, PTFE Universal Rope, PTFE Braided packing.

Properties of Polytetrafluoroethylene PTFE:-

Polytetrafluoroethylene PTFE is high performance Engineering Plastics having unique properties:-

- PTFE is chemically Inert & non-reactive to almost all known chemicals.
- PTFE has Excellent Thermal Resistance upto 260OC
- PTFE is Non-adhesive, non-bondable & has Anti Stick Properties
- PTFE is material with exceptionally low coefficient of friction
- PTFE has Outstanding Electrical Insulation properties
- PTFE has Excellent weathering resistance.

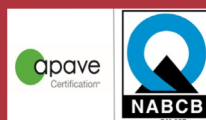
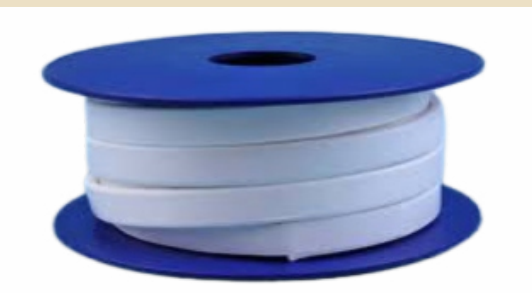
Sterling PTFE Un-sintered Products - Working Advantages

Sterling PTFE Un-sintered Products are used as sealant medium as system imparts unique operational benefits:-

- The system can be used for sealing domestic plumbing as well as manufacturing line for life saving drugs due to its inertness, nontoxic & hygienic properties.
- The outstanding chemical resistance permits system to be used universally & practically with any flowing medium such as chemicals, oils, petroleum, sea water etc.
- The system can be used with all types of materials such as steel, Iron, Aluminum, Brass, Monel, Hast alloy, Plastics, Glass, Ceramic, Rubber due to its electrically non-corrosive nature in combination with any metal or nonmetal.
- As the system has excellent resistance to radiation and practically remains unchanged during-after irradiation both in air & vacuum, makes its utilization in atomic & nuclear environments.
- The system has successfully qualified for use under many codes related to toxic, hazardous, flammable, absorbent, hygienic, radiation, vacuum, magnetic & domestic materials.
- As the system is nonflammable, can be used in highly flammable, explosive environments without any risk.
- The system makes the joints easy to assemble & disassemble due to its self-lubricating properties.
- The system is single component system free from fillers and additives, hence hygienic in nature.
- The system keeps off electrolytic corrosion of joint due to superior electrical insulation properties.
- Due to remarkable pressure compatibility upto 250 kg/cm² allows system to be sued effectively to seal high pressure gaseous mediums.
- The plastics resilient nature enables to form contour to form perfect seal.
- The system is convenient, economical, universal, permanently clean, simple but perfect sealing medium.

Sterling PTFE Un-sintered Products - Application Fields

- Piping: Domestic water, Chemicals, Pharmaceuticals, Petroleum, Gas stations, LPG filling stations, steam, Wine & beverage, Milk, Food processing.
- Equipment's: Valves, Pumps, Turbines, Material handling systems, Dye mills, Laboratory equipments, Mining & metallurgical equipments, Air conditioning & refrigeration equipments.
- Machinery: Hydraulic machines, Pneumatic machines, Chemical & pharmaceutical processing machines, Electrical machines.
- Plants: Nuclear power plants, Hydraulic & thermal electricity power plants, Ammunition plants, Steel plants, Effluent treatment plants, Electroplating plants, Fertilizer plants.
- Industries: Automobiles, Aviation, spacecraft, PCB - IC Manufacturing industries, shipbuilding industries.





STERLINGTM PTFE Un-sintered Product Range



Hindustan Nylons manufactures various PTFE Un-sintered Products such as PTFE Thread Seal Tape, PTFE Expanded Joint Sealant Tape, PTFE Universal Rope / Mergollar, PTFE Braided Packing in various styles such as Dry; Impregnated with PTFE Dispersion; Lubricated with inert high temperature Silicon Lubricant & Graphite blended PTFE Braided Packing under Sterling Brand.



| Sterling Brand Un-sintered PTFE Thread Seal Tape | | | | | Specification: IS-14643 | |
|--|-------------|---------------------------------------|-----------------|--|---|--|
| Sr. No. | Model | Size: | Density (gm/cc) | Service Conditions | Applications | |
| 1 | I-Premium | 12/19/25mmW X 0.075/0.1mmT X 10/12M L | 0.55 | High Pressure: 250 kg/cm ² -250°C | Hydraulic, Petroleum, Petrochemicals, Gaseous, Space, Nuclear | |
| 2 | II-Standard | 12/19/25mmW X 0.075/0.1mmT X 10/12M L | 0.40 | Medium Pressure: 100 kg/cm ² -200°C | Pharma, Pneumatic, Food & Beverages | |
| 3 | III-General | 12/19/25mmW X 0.075/0.1mmT X 10/12M L | 0.25 | Low Pressure - 10 kg/cm ² -100°C | Domestic Water | |



| Style No:HN-1011 | Sterling Brand Expanded PTFE Joint Sealant Tape with Adhesive Backing | Ideal For:- Static Seal as Gasket |
|--|---|--|
| Properties: Good chemical resistance, inert to most media • Soft & Resilient • Self-Lubrication/Low • Coefficient of friction • High Temperature Resistance | | Service Medium: • Non Drinking Water • Chilled Water • Warm Water • Hot Water • Mild Acids & Alkalies • Paints & Dyes • Adhesives • Petroleum • Paper Pulp • Oils & Greases • Mineral Oil |
| Service Conditions : Temp (°C): -240 to +260, Pressure: 200 Kg/cm ² ; pH Range : 0~14 | | Not Recommended For:- Fluorine complexes & Alkali Metals Forms:- Rectangular Rope |
| Sizes available / Standard Size: | | |
| Width (mm) | 5 5 7 10 12 14 14 17 19 20 20 20 25 25 25 25 30 30 40 40 45 50 55 70 | |
| Thick (mm) | 2 3 2.5 3 4 3 5 6 5 3 5 7 1 5 7 10 3 5 3 5 3 3 3 3 | |
| Length (m) | 30 30 30 20 10 10 10 10 5 5 5 5 10 5 5 5 5 5 5 5 5 5 5 5 | |



| Style No:HN-111 | Sterling Brand PTFE Universal Rope | Ideal For:- Static Seal for Valves & Gasketing |
|---|------------------------------------|---|
| Properties: • Good chemical resistance, inert to most media, • Soft & Resilient • Self-Lubrication/ Low coefficient of friction • High Temperature Resistance | | Service Medium: • Non Drinking Water • Chilled Water • Warm Water • Hot Water • Mild Acids & Alkalies • Paints & Dyes • Adhesives • Petroleum • Paper Pulp • Oils & Greases • Mineral Oil |
| Service Conditions: Temp (°C) -100~260, Pressure (kg/cm ²): 20P, 50R, 100V, pH Range 0-14, Speed (m/s) 4P, 1R | | Not Recommended For:- Fluorine, Fluorine complexes & Alkali Metals Forms:- Round / Square Section, Rope form Sizes Available:- 3mm ~ 25mm, Packing Size:- 5m ~ 30m |



| Style No:HN-222 | Sterling Brand PTFE Braided Packing-(Dry) | Ideal For:- Low cost, Universal packing for Water, Gas, Mild Chemicals |
|--|---|---|
| Properties • Good chemical resistance, inert to most media. • Good Dimensional Stability. • Soft & Resilient • Self-Lubrication/ Low coefficient of friction • High Temperature Resistance | | Service Medium: • Drinking Water • Non Drinking Water • Chilled Water • Warm Water • Hot Water • Adhesives • Steam Water, Steam & Vapour • Mild Chemicals • Petroleum • Gaseous Environment • Paints & Dyes • Liquor & Alcohol • Paper Pulp • Oils & Greases • Mineral Oil |
| Service Conditions: Temp (°C) -200~260, Pressure (kg/cm ²): 20P, 100R, 250V, pH Range 0-14, Speed (m/s) 10P, 1R | | Not Recommended For:- Fluorine, Fluorine complexes & Alkali Metals Forms:- Square Section, Ring & Rope form, Sizes Available:- 3mm~25mm Packing Size:- 1kg ~ 10kg depending upon size |



| Style No:HN-333 | Sterling Brand PTFE Braided Packing Impregnated with PTFE Dispersion | Ideal For:- Universal packing for Medical, Juices, Pharmaceutical, Liquor & Alcohol, Food Stuff Application (FDA component) |
|---|--|--|
| Properties: • Good chemical resistance, inert to most media, • Good Dimensional Stability • Soft & Resilient • High Density • Self-Lubrication / Low coefficient of friction • Suitable to food contact application • High Temperature Resistance • Excellent volume stability • Suitable to Medical/ Pharmaceutical Applications • Low Permeability | | Not Recommended For:- Fluorine, Fluorine complexes & Alkali Metals Forms:- Square section, Ring & Rope form Sizes Available:- 3~25mm Packing Size:- 1~10 kg depending upon size |
| Service Conditions: Temp (°C) -200~260, Pressure (kg/cm ²): 50P, 150R, 250V, pH Range 0-14, Speed (m/s) 5P, 1R | | Service Medium: • Drinking Water • Liquor & Alcohol • Juice • Pharmaceuticals • Food Stuff • Medical |



| Style No:HN-444 | Sterling Brand PTFE Braided Packing Impregnated with PTFE Dispersion & Lubricated with inert High temperature Lubricant | Ideal For:- Universal packing for Low friction, Aggressive (Non-abrasive) Chemical, & Corrosive Gases |
|---|---|--|
| Properties: • Good chemical resistance, inert to most media, • Low startup friction. • Good Dimensional Stability • Soft & Resilient • Self-Lubrication / Low coefficient of friction • High Temperature Resistance • Excellent volume stability • Low Permeability | | Service Conditions: Temp (°C) -200~260, Pressure (kg/cm ²): 20P, 100R, 200V, pH Range 0-14, Speed (m/s) 15P, 2R |
| Service Medium: • Gaseous Environment • Petrochemicals • Aggressive Chemicals | | Not Recommended For:- Fluorine, Fluorine complexes & Alkali Metals Forms:- Square section, Ring & Rope form, Sizes Available:- 3~25mm Packing Size:- 1~10 kg depending upon size |



| Style No:HN-555 | Sterling Brand Graphite Blended PTFE Braided Packing, Lubricated with / without inert high temperature lubricant | Ideal For:- Low friction for Universal packing for Aggressive & Viscous chemicals. |
|--|--|---|
| Properties: • Good chemical resistance, inert to most media, • Low startup friction • Good Dimensional Stability • Good Heat dissipation properties. • Soft & Resilient • Self-Lubrication / Low coefficient of friction. • Low Shaft wear • No Jamming on shaft, lower shaft erosion • High Temperature Resistance • Excellent volume stability | | Not Recommended For:- Fluorine, Fluorine complexes, Alkali Metals, Nitric Acid, Oxygen & Oxidizing Agents Forms:- Square section, Ring & Rope form Sizes Available:- 3~25mm Packing Size:- 1~10 kg depending upon size |
| Service Medium: • Paints & Dyes • Paper Pulp • Oils & Greases • Mineral Oil • Adhesives | | Service Conditions: Temp (°C) -240~300, Pressure (kg/cm ²): 25P, 250R, 250V, pH Range 0-14 Speed (m/s) 20P, 3R |

P=Pump, R=Reciprocating, V=Valves



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