



HINDUSTAN NYLONS

ISO 9001:2015 CERTIFIED COMPANY



● STEEL BACKED PTFE SHEETS / PTFE - STEEL SLIDE BEARINGS ●



Hindustan Nylons – A leading manufacturer of PTFE special components such as steel backed PTFE & Filled PTFE Sheets. These products are also commonly known as PTFE / STEEL Slide bearings, Slide Plates Bearings.

Product Information

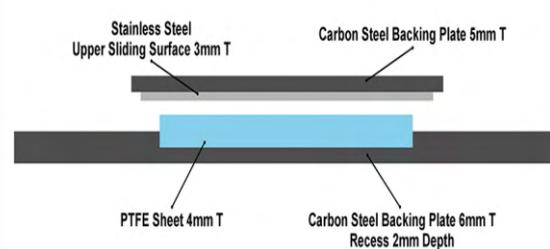
Steel Backed PTFE Sheets are used for self-lubricating, low-friction application across many Industries such as Automotive Construction, Food processing as Slide pads, Wear liners, Anti-friction Strips.

Key Properties

- **Self-lubricating** : The PTFE Sheet provides remarkable self-lubricating properties, reducing friction & wear on moving parts.
- **High Load Capacity** : The Steel backing provides high load capacity to withstand heavy duty applications.
- **Low Coefficients of Friction** : The PTFE has lowest coefficient of Friction in contact with steel ensuring low tangential load.
- **Resiliency** : The PTFE has resiliency properties, to absorb the vibrations between upper element & lower element.

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PTFE Sheet (Recessed) Slide Bearing

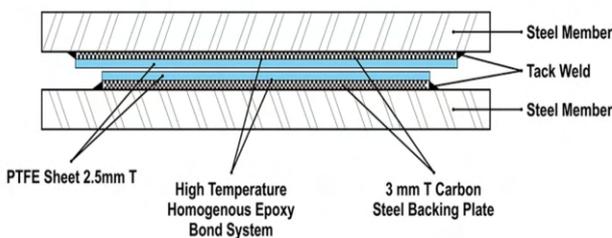


Suggestive Design Data of STEEL BACKED PTFE SHEETS

Steel backed Virgin PTFE Sheet assembly can accommodate the compressive loads of around 70 kgf/cm², while steel backed Filled / reinforced PTFE Sheet assembly can bear the compressive load of around 185 kgf/cm².

The load bearing capacity of these materials can be increased by recessing PTFE Sheets into steel backing plate. Typically, 4mm thick virgin PTFE bonded into 2mm deep recess of 6mm thick steel plate can bear the load of around 140 kgf/cm² & filled / reinforced PTFE of same dimensions can accommodate around 500 kgf/cm²

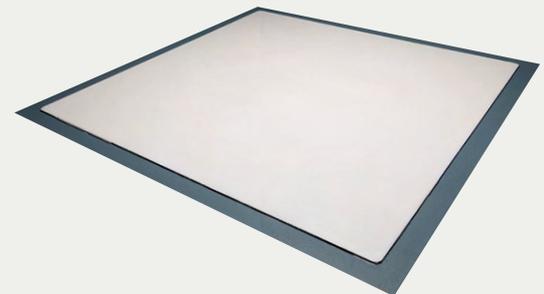
Steel Backed PTFE Sheet Assembly



In case of filled / reinforced PTFE, values of Coefficient of friction are generally higher due to rough surface finish. Most common reinforcement fillers are Glass, Carbon, Graphite & Bronze and the values are beyond 0.08-0.12 in dry as well as wet Conditions.

Applications

- Automotive : Suspension Components, steering parts requiring minimum friction & wear.
- Construction : Bridge bearing pads, Beam Launching pads.
- Packing Machinery : Conveyor systems
- Food & Pharmaceutical : Conveyor systems
- Aero Space : Slide plates & bearings
- Oil & gas : Pipeline support pads



PTFE : TOUGH Polymer for Environment
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