

Glass Filament Reinforced Tapes for Transformers



Saint-Gobain Tape Solutions

North America | South America | Europe | Asia

For more information, please visit tapesolutions.saint-gobain.com





Where are Adhesive Tapes Used in Oil-filled Transformers?

Adhesive tapes are used throughout the coil windings to secure other solid insulation materials, such as the paper layer insulation. The most common adhesive tapes used in these applications require:

- High tensile strength
- Good adhesion to dirty surfaces
- Thermal resistance
- Chemical resistance to oils, resins
- Porosity to oils/resins



By combining different types of adhesive and backing, we are able to offer different solutions:

Best Adhesion	H-old® PS.25: the most widely used class (F) tape for the outer wrapping of transformers. PS.25 offers very high tensile strength combined with an aggressive acrylic adhesive for fast processing and reliable performance in mild oils. Available also with improved mechanical properties as h-old PS.30.	
Best Shear	H-old PS.249: manufactured with a high-performance acrylic adhesive, PS.249 offers the same great mechanical and dielectric properties of h-old PS.25, but with an increased oil resistance.	
Best Oil Resistance	H-old 6202 & 6602: the best in class when aggressive mineral or ester oils are used. This product is specifically engineered to withstand more critical conditions of oil compatibility without compromising to a high level of tack and adhesion for an easy and fast application.	
Best Absorption	H-old 6601 & 6602: glass filament reinforced paper tape that offers all the benefits of our oil resistant adhesive combined with the higher capability of saturation without air bubbles given by the more porous paper backing.	

Product Name	PS.25	PS.30	PS.249	6202	6601	6602
Total thickness (µm)	155	175	160	155	235	250
Adhesion on steel (N/cm)	6,50	6,50	4,00	3,00	5,00	3,00
Tensile Strength (N/cm)	380	550	380	380	400	380
Elongation at Break (%)	5	5	5	7	7	6
Breakdown Voltage (V)	5000	5000	5000	5000	2600	2600
Thermal Class	F	F	F	F	B	B
UL file	E178430	E178430	—	—	—	—
Oils resistance*	•••	•••	••••	•••••	••••	•••••

* Very good: ••••• Very bad: —

For further information, please download our white paper "[Adhesive Tape Oil Compatibility](#)" from our website.

