



Tape Solutions for Thermal Spray

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Saint-Gobain® offers a complete range of adhesive tapes to perform in a variety of thermal spray coating processes from grit blast to HVOF (High Velocity Oxygen Fuel). Thermal spray tapes offer highly conformable backings made to maximize abrasion resistance and leave behind clean edges during removal. The high temperature adhesive used on these products ensures good holding power during use and clean adhesive removal minimizing post spray rework. Thermal spray tapes are approved for use on various Pratt & Whitney, Rolls Royce and GE specifications.

Flame Spray Processes

Grit/Bead/Shot Blasting: A pre-process step where abrasive materials are discharged at the target to strip/clean/prepare the surface to promote adhesion of various coatings.

Flame Spray and Thermal Spray: Generic terms for the various thermal processes for depositing ceramic, metal and plastic powders onto a variety of materials.

Plasma Spray: Introduces powders into an electrical or combustion initiated high energy flame directed toward a variety of materials with the help of pressurized gas/air.

HVOF (High Velocity, Oxygen Fuel): A high velocity (550m/sec) process where fine powders are introduced into a stream of pressurized fuel and oxygen.



HVOF

Plasma

Thermal Spray Tapes

Products: Silicone Rubber Coated Glass Cloth, Multi-layer, Foil and Glass Cloth

Function: Masking protection in thermal spray coating operations

Features: Conformability, abrasion resistance, temperature resistance, tear strength, tensile strength, high adhesion, clean release

Silicone Rubber Coated Glass Cloth Tape: These tapes offer a desired balance between multiple key properties. The silicone rubber layer aids in thermal spray coatings bouncing off of the masking tape while maintaining good conformability, moderate abrasion resistance and clean masking edges. These tapes are often used through grit blasting and thermal coating steps eliminating the cost associated with reapplying another layer of tape.

Multi-layer Tape: Thick, multi-ply tapes are often used in the harshest most demanding thermal spray processes such as HVOF. Although these tape configurations sacrifice conformability compared to thinner single ply tapes they offer the abrasion and burn through resistance required in high temperature and high spray velocity applications.

Foil Tape: Foil tapes are highly conformable for parts with complex geometries or hard-to-reach areas while offering good abrasion resistance. They maintain clean edges upon removal and are designed with clean removal adhesive.

Glass Cloth Tape: Glass cloth tapes are the most economical thermal spray masking products available. They can be used as a base masking layer in high temperature and pressure spray operations, or as the main layer in less severe processes. Glass cloth tapes are among the most conformable types of tape offered in thermal spray applications.

Thermal Spray Tapes

Substrate	Liner	Adhesive	Tape Backing Thickness			Max Long Term Operating Temperature °F (°C)	Product Features
			Product Code				
Backing Material			0.007-0.008 in (0.178-0.203 mm)	0.011-0.012 in (0.279-0.305 mm)	0.018-0.022 in (0.457-0.559 mm)		
Silicone Rubber Coated Glass Cloth	Yellow Dimple, Fluorosilicone PET	Silicone		2975		600 (315)	Most widely used plasma spray tape
Silicone Rubber Coated Glass Cloth	Yellow Dimple	Silicone		23816		600 (315)	10% thicker version of 2975
Silicone Rubber Coated Glass Cloth	Yellow Dimple	Silicone		2965		600 (315)	Low residue adhesive version of 2975
Silicone Rubber Coated Glass Cloth	Self-Wound	Silicone		29A5		600 (315)	Liner-less version of 2975
Silicone Rubber Coated Glass Cloth	Yellow Dimple	Silicone		PDPS90		600 (315)	Low tack backing
Silicone Rubber Coated Glass Cloth	Yellow Dimple	Silicone			HV60-18	600 (315)	2X thickness rubber layer
Glass Multi-layer, Silicone	Yellow Dimple	Silicone			H7575	600 (315)	2 layers of 2975
Glass Multi-layer, Silicone-Aluminum	Yellow Dimple	Silicone			H7525	600 (315)	Heavy duty construction, thin foil center
Glass Multi-layer, Silicone-Aluminum	Yellow Dimple	Silicone			H6595	600 (315)	Heavy duty construction, thick foil center
Foil, Aluminum-Glass	Self-Wound, Yellow Dimple	Silicone	2925			600 (315)	Most widely used thermal spray tape
Foil, Aluminum-Glass	Self-Wound	Silicone	2926			600 (315)	High purity adhesive version of 2925
Foil, Aluminum-Glass	Self-Wound	Silicone	6005			600 (315)	Thicker foil version of 2925
Foil, Aluminum	Kraft Paper	Silicone	26020			600 (315)	Thick foil, heavy duty
Glass Cloth	Kraft Paper, Yellow Dimple	Silicone	2905			600 (315)	Economy plasma spray tape, double sided adhesive
Glass Cloth	Self-Wound	Silicone	2915			600 (315)	Economy thermal spray masking tape

■ Excellent Conformability
 ■ Excellent Abrasion Resistance
 ■ Excellent Spray Deflection

Your Partner in Custom Tape Solutions

A custom tape solution can pay for itself many times over thanks to the process and product improvements it can provide. Tape development engineers will work with partners to design an economical but highly effective tape product.

Even with endless permutations of industrial tapes available there is only one company that can deliver a custom-made tape with optimal adhesive, the perfect backing materials, seamless process integration and superb performance.

To learn more about how **Saint-Gobain** can help solve tape and materials engineering challenges, call us or visit us online.

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