

TAPE - TECHNICAL & APPLICATION DATA

Technical Data Sheet 21215 & 21215A

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APPLICATIONS

Metallisation 21515 (25mm) & 21515A (50mm) Tape is used in the plasma spray process, which is a method of applying thin coatings of metal or high temperature ceramics to a surface. The coating is sprayed at a high pressure and at extreme temperatures, the tape being applied next to and around the areas that will be plasma sprayed. It protects the area both from gritblasting, which is used as a surface preparation and from the actual plasma spray coating. The aerospace industry is the primary market for the use of plasma spray tapes, specifically jet engine manufacturers, overhauls centres and major airlines maintenance centres.

TAPE DETAILS

Tape Size : 25mm (1") & 50mm (2")
Composition : Single sided tape consisting of a glass-cloth carrier with a silicone rubber and a silicone adhesive.

APPLYING SUGGESTIONS

All substrates should be clean and contamination free, a solvent such as Isopropyl-Alcohol is recommended for cleaning purposes with the tape being applied with pressure.

PHYSICAL PROPERTIES *

The tape was developed to withstand the abrasion of the gritblasting and the extreme temperatures / pressures of the plasma spray process and the resistance against high temperatures prevents tape slippage after application. It has a very good strength and flexibility which allows for an easy wrapping of complex shapes and minimises wrinkling.

Storage and Ageing	:	1 year shelf life whilst stored at ambient room temperatures, keep out of direct sunlight.
Carrier	:	Glass / Silicone.
Adhesive	:	Silicone.
Liner	:	None
Thickness Carrier	:	0.18mm
Thickness Total	:	0.27mm
Adhesion on Stainless Steel	:	14 N/25mm - AFERA 4001
Tensile strength	:	667 N/25mm - AFERA 4004
Elongation	:	5% - AFERA 4005
Dielectric Strength	:	7 KV
Service Temperature	:	-73 to 260 Deg C

* Values shown above are averages; each user should make his own test to determine the product suitability for his intended use and shall assume all risks and liability in connection therewith.

To comply with Health and Safety Legislation you are recommended to consult the SDS referring to this material.