



High Temperature Masking Tapes  
for all applications in Paint Coating  
& Covering Technology



## Your Partner

Scapa is a leading global manufacturer and supplier of technical adhesive tapes and films to major industries such as automotive, cable, building & construction, printing & graphics, medical, aerospace and electronics.

Within the industrial painting market, Scapa offers a dedicated range of specialist products fulfilling all the demanding applications of masking during the paint process.

Whilst specialist masking tapes have been used in high temperature applications within this market segment for many years, not all masking tapes are the same and there is variation in the very high levels of performance and process benefits that are so vital to the production process.

Whatever the type of masking required, Scapa offers the right pressure sensitive adhesive tape from a comprehensive range to achieve the right result.

Selection of the right tape ensures:

- High temperature performance
- Conformability and flexibility
- Easy and clean removal
- Bonding on different substrates

For Powder and Thermal Spray Coatings, Scapa has developed masking tapes of specific constructions to give excellent thermal and abrasion resistance whilst protecting surfaces.

Application requirements are as diverse as:

- Automotive: car manufacturing and repair
- Transports: truck & bus, aerospace, ships, rail and military industries
- Building: aluminum profiles, metal structures, furniture and floor coverings
- Electronics: white goods, electrical boxes
- Medical: surgical instruments

Our most popular products from our range are presented in this brochure. This presentation is designed to provide you with the most economical format. In addition, Scapa's converting expertise allows the flexibility of finished product in either cut roll format or converted parts to specialist needs.

As Scapa is a specialist in this field, whatever the coating technology used (liquid, powder or thermal) or the industrial sector you are in, you can rely on Scapa's precise technology, application knowledge and ability to advise and customise the best tape solution to your particular needs.



## Your Solution

The Scapa range includes a complete line of masking products, demonstrating high performing adhesion to a variety of surfaces, excellent temperature and chemical resistance, and clean removal after use.

**Scapa Paper Tapes** are pressure sensitive adhesive semi crepe paper backed, single sided with a rubber or silicone adhesive system designed to operate in high temperature applications. The structured smooth crepe carrier ensures high strength and excellent conformability for intricate masking requirements. Products exhibit excellent adhesion to a wide range of substrates including metals such as polished and anodised aluminium, while resisting painting flaking.

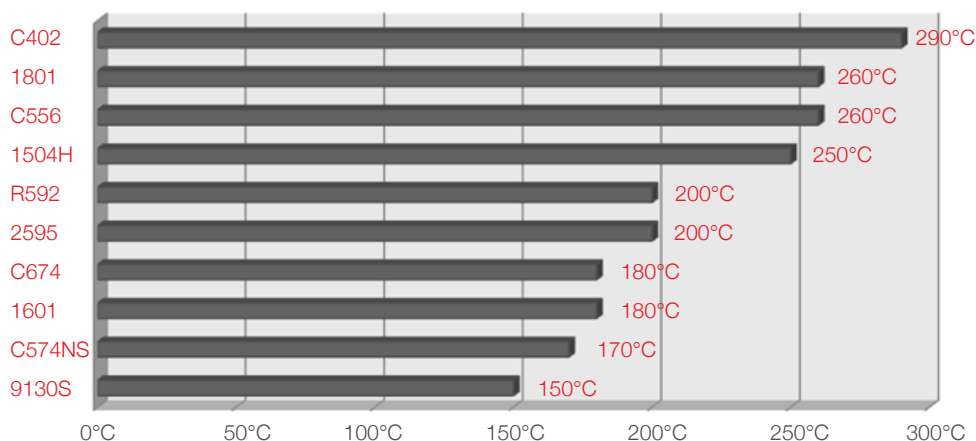
**Scapa Polyester and Polyimide Tapes** are a range of general purpose masking tapes for Powder Coating operations available in different colours to help identification. Each carrier performs well over high temperature ranges with no shrinkage, while the thinner version is ideally

suited for curved and irregular surfaces. Both product ranges are high shear and high temperature resistant, up to 200°C for products having a polyester carrier and up to 260°C for products having a polyimide carrier. Moreover, polyimide tapes exhibit higher abrasion resistance with excellent conformability and flexibility. An additional feature to both product constructions is that they provide a clean fine line demarcation after removal.

**Scapa Glass Cloth Tapes** are general purpose masking tapes with a pressure sensitive silicone adhesive system, specifically designed for Thermal Spray Coating. Products withstand extreme temperature of up to 290°C and gives good conformability and flexible qualities for intricate masking requirements. Different product constructions are available to meet specific application demands. The range includes simple and multilayer laminate products. This range gives the best choice of high temperature masking tapes for plasma spray, flame spray, HVOF (High Velocity, Oxygen Fuel), electric arc spray and cold spray processes.

How to select the right tape according to your service temperature?

Temperature Resistance\* - 20min exposure



\*Tests parameters: tape applied onto anodized aluminum plate and exposed during 20 minutes at different temperature.

The temperature resistance is validated if results show:

- Clean removal after use with no residue
- No shrinkage after temperature exposure
- Easy removal in one piece

# High Temperature Masking Tapes Range

|             | Product Code | Adhesive Type | Carrier Thickness (µm) | Total Thickness (µm) | Operating Temperature °C (20mn exposure) | Adhesion to steel (N/cm) | Colour | Special Features  |
|-------------|--------------|---------------|------------------------|----------------------|--|--------------------------|--------|---|
| Paper       | 9100S        | Rubber        | 120                    | 130                  | 120                                      | 2.5                      | Cream  | Resistant to emulsion and solvent paints<br>Resistant to IR drying and to oven baking<br>Moderate tack, good peel adhesion                                    |
|             | 9130S        | Rubber        | 100                    | 170                  | 150                                      | 3.0                      | Cream  | Good peel adhesion and shear strength<br>Resistant to oven backing  |
|             | 2595         | Silicone      | 102                    | 150                  | 200                                      | 2.6                      | Cream  | Specifically designed for use within powder coating and finishing industries<br>Withstands temperature in excess of 180°C                                     |
| Polyester   | C574NS       | Rubber        | 25                     | 50                   | 170                                      | 2.2                      | Green  | Version with rubber adhesive to bond onto low surface energy<br>Thin carrier to ensure good conformability  |
|             | 1601         | Silicone      | 23                     | 68                   | 180                                      | 2.8                      | Blue   | Thin carrier to ensure good conformability<br>Higher temperature resistance than C574NS   |
|             | C674         | Silicone      | 50                     | 75                   | 180                                      | 3.5                      | Yellow | Thicker version for a better handling<br>High tack and adhesion   |
|             | R592         | Silicone      | 50                     | 83                   | 200                                      | 4.0                      | Green  | General purpose masking tape for powder coating operations<br>Thicker version for a highest temperature resistance up to 220°C short term                     |
| Polyimide   | C556         | Silicone      | 25                     | 69                   | 260                                      | 2.7                      | Amber  | Polyimide carrier and high tensile strength providing higher temperature resistance   |
|             | 1801         | Silicone      | 25                     | 70                   | 260                                      | 2.6                      | Amber  | Kapton®* polyimide carrier (*Dupont de Nemours)<br>Polyimide carrier and high tensile strength providing higher temperature resistance                        |
| Glass Cloth | 1504H        | Silicone      | 114                    | 170                  | 250                                      | 3.8                      | White  | Single sided fibre glass cloth<br>Retains physical properties at high temperature   |
|             | C402         | Silicone      | 100                    | 216                  | 290                                      | 4.8                      | Silver | Single sided fibre glass cloth laminated with an aluminium foil<br>Excellent reflectivity and conductivity<br>Ensures better sharp edge definition than 1504H |
|             | C404         | Silicone      | 304                    | 482                  | 880 (short term)                         | 6.8                      | Copper | Double sided multilayer tape<br>Two layers of fibre glass cloth laminated to a copper foil<br>Designed specifically for HVOF process<br>Patent pending        |

Scapa develops solutions to meet customers' demands – a selection of products in our standard range is shown here. If however, you do not find the right product for your specific requirements, please contact us to research the best solution.

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