

# DeWAL® BlueShield Masking Compound

DeWAL® BlueShield Masking Compound is a one-step moldable compound used in HVOF and plasma spray masking. It is available in multiple thicknesses and widths.

#### Applications:

- Grit blasting
- Plasma spray masking
- HVOF spray masking

#### Product Use:

On a clean, dry, oil-free surface, hand-mold the BlueShield to part location needing to be masked. A backing should be used if through holes need to be filled. For smooth, flat surfaces, BlueShield can be extended into a hook shape to hold around the edges.

Once masked, cure part @ 120°C (250°F) for 25 minute minimum. Larger parts, or parts with a heavier coating of BlueShield, will require longer curing time. BlueShield becomes a solid material, similar to hard rubber, when fully cured. The part is now ready for grit blasting and HVOF spraying.

After spraying, the BlueShield can be peeled off. Areas hard to reach can be oxidized off at 315°C (600°F). BlueShield covering any threaded holes can be removed with a screwdriver. Any remaining residue can be cleaned using MEK or Toluene.

| PROPERTY                                 | TEST METHOD           | TYPICAL VALUE*            |
|--|-----------------------|---------------------------|
| <b>PHYSICAL</b>                          |                       |                           |
| Material                                 |                       | Silicone Masking Compound |
| Cured Tensile Strength, MPa (psi)        |                       | 6.9 (1,000)               |
| Density, g/cc                            |                       | 0.8                       |
| Hardness                                 | Shore A               | 55                        |
| Maximum Operating Temperature, C° (F°)   |                       | 482 (900)                 |
| Sustained Operation Temperature, C° (F°) |                       | 357 (625)                 |
| <b>PRODUCT OPTIONS</b>                   |                       |                           |
|  | <b>Flat Ribbon**</b>  | <b>Beading**</b>          |
| Dimensions mm, inches                    | 50 x 4 (2 x 5/32)     | 12.7 (1/2)                |
|  | 25 x 4 (1 x 5/32)     | 6.35 (1/4)                |
|  | 25 x 2 (1 x 5/64)     | 3.2 (1/8)                 |
|  | 12.7 x 2 (1/2 x 5/64) |                           |

\*\***Shelf life:** 6 months @ 22°C (72°F) in a sealed container; over 1 year when stored in a refrigerated room

\*Typical values shown are from testing at date of manufacture and should not be used for specification limits.

- Additional technical information and product specifications are available upon request.

- All metric conversions are approximate.