

3M Application Profile: Processing High Temperature Protection



Workers welding seams on a ship hull while it's in drydock.

Application Description:

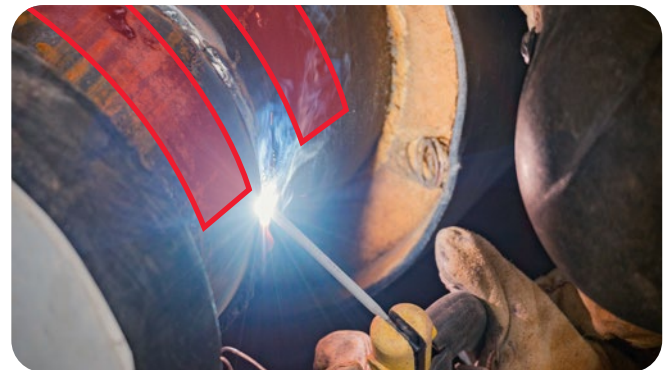
A temporary mask is applied to protect surfaces from heat and/or flame caused from welding, brazing, or soldering processes which can alter or damage surfaces. It is intended for exposure of temperatures above 450F, caused by incidental sparks and/or flames for short durations.

Application Benefit:

- Joins similar or dissimilar parts together without needing mechanical fasteners or glues

Key Application Requirements:

- Provides an aggressive adhesion strength, holding power to parts and own backside for tape overlap
- Resists incidental overspray from sparks and/or flame from tooling equipment
- Removes cleanly after use



3M™ High Temperature Aluminum Foil/Glass Cloth Tape 363 can be used to protect pipe surface from weld splatter on either side of the welded seam.

Engineered Industrial Tapes

For Aerospace, Automotive,
Electronics and General Industrial

Tape Benefits:

- **Conformability:** Curves around complex shapes, geometries, and non-uniform surfaces, reaching difficult to mask areas
- **Fast, clean removal:** Reduces time required to remove and/or clean surface after use
- **One piece removal:** Reduces time and challenge for removal from surface
- **Minimum rework:** Reduces the difficult rework of grinding off weld splatter and refinishing an area
- **Easy to apply/Immediate use:** Saves time, space, and material cost
- **Customizable (Lined product):** Creates shapes or sizes that are part specific quickly and easily

Products

3M™ High Temperature Aluminum Foil/Glass Cloth Tape 363/363L

3M™ High Temperature Aluminum Foil Tape 433/433L

3M™ Aluminum Foil Tape 431/439

3M™ Polyimide Tape 8998/8998L

Additional Applications

Aerospace	Welding Splatter, Flange
Automotive	Roofing Seams
Electronic	Soldering
Marine	Ship welds, Boat metal cleats



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