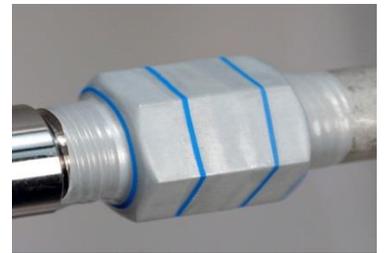


# SPITA Self-fusing silicone tape **ResQ-tape**

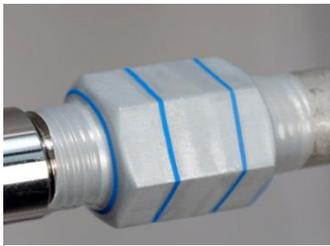


## H2-DETECT

**SPITA ResQ-tape H2-Detect** is a passive color changing (colorimetric) self-fusing silicone tape designed to detect hydrogen gas (H<sub>2</sub>) leaks in fuel cells, transmissions, storage and generation facilities. When in contact with concentrated hydrogen gas, the tape color changes from light grey to dark black in the event of a leak due to damage or seal/connection failure. The tape only sticks to itself and can be applied onto all types of connectors, joints, fittings, valves, flanges and areas susceptible to vibration damage. Easy to remove with utility knife, leaving no residue to the surface.

### CONSTRUCTION

Material	Silicone with silica
Liner	Polystyrene
Thickness	0,25 mm
Width	25 mm
Length	4,5 meter
Profile	Rectangular
Available colours	Grey with blue guideline



NO LEAK DETECTED



HYDROGEN LEAK DETECTED

*Depending on the severity, duration or location of the leak, the localized connection may be partially or gradually darkened. In the case of a partial darkening, contact your maintenance team for confirmation of a leak.*

### FEATURES

- Heat resistant up to 260° Celsius
- Remains flexible till -55° Celsius
- UV-resistant
- Chemical resistant
- Can be used on all metal substrates
- Changes colour within minutes of detection
- Resists fuels, acids, solvents and (road)salt
- Works on every surface without preparation
- Works with commonly used detection tools
- Easy to apply and to remove leaving no residue
- No adhesive – only bonds to itself

### STORAGE / HANDLING / SHELF LIFE / LIFE SPAN

Storage	Store in a cool, dry area and keep away from direct sunlight.
Handling	Keep tape roll clean and free of dust, dirt or debris.
Shelf life	> 5 years
Life span	> 10 years (after application)

### User instructions: (see also special instructions in package)

- 1) Pull tape strip from roll up to perforation point.
- 2) Tear away tape at perforation point and peel liner away from tape.
- 3) Press the tape firmly on object being wrapped, hold in place and begin first wrap completely over itself.
- 4) While holding the tape in place, begin stretching at 200 - 300% it's length and wrap object with 50% overlap to ensure a proper seal.
- 5) To complete wrapping of object, wrap SPITA ResQ-tape completely over previous layer and press firmly.



### SPECIFICATIONS

Property	Test method	Value
Continuous Temperature Range		-50°C to +230°C
Intermittent Temperature Range	(24hrs max)	-55°C to +260°C
Cold Brittle Point Max	ASTM D-2137	-65°C
Water absorption	Fed STD601 Method6251	1,6% max by weight
Tensile strength	ASTM D-412	700 psi (48 bar)
Elongation	ASTM D-412	323% average
Tear resistance	ASTM D-412	5,5 Bar
Durometer Hardness		58 Shore A
Fusing time		< 5 seconds
Thickness Tolerance		+/- .05 mm
Width Tolerance		+/- 1,1 mm



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