

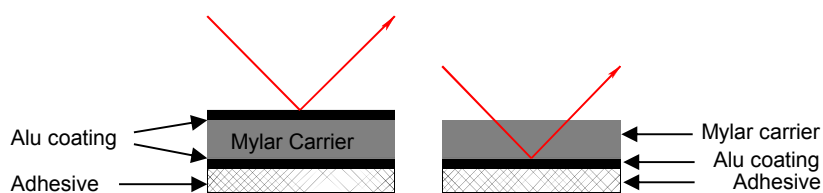
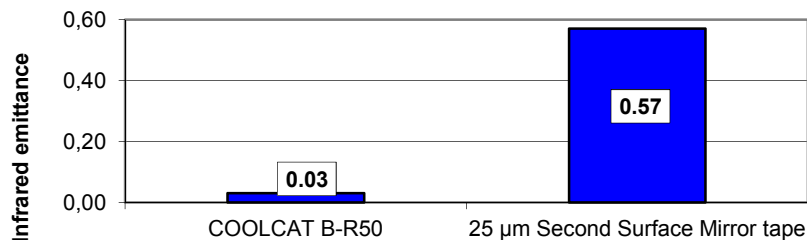
# Cryogenic Polyester Tape COOLCAT B-R50

RUAG Space developed COOLCAT B-R50 specifically for thermal insulation in cryogenic applications. With **lowest infrared emittance** on its **outer surface**, it is optimized for **cryogenic environment**.



- It is composed of a 25 µm polyester foil carrier, **double-sided aluminized** and a **high purity** pressure sensitive acrylic adhesive.
- It is **most recommended** for the closing of **superinsulation joints**, for example of COOLCAT 2 NW layups.
- The procedure for cryogenic tests follows **AFERA** as far as required and is adapted to cryogenic temperatures as necessary.
- The tape meets the standard **outgassing requirements for satellites** of the **European Space Agency**.

**Emittance of aluminized tapes**  
(low value required for good radiative insulation)



## Application of COOLCAT B-R50

### For example:

Superinsulation joints (butt joints) closed with small pieces of COOLCAT B-R50



### Bonding strength at room temperature

- Peel strength: min. 16 N / 25 mm width (AFERA 5001)
- Shear strength: min. 60 N / 625 mm<sup>2</sup> (AFERA 5012)

### Bonding strength on stainless steel at 4K (tested)

- Peel strength: 3 N / 12 mm width
- Shear strength: 47 N / 144 mm<sup>2</sup>

### Dimensions

The tape is wound on a plastic core. The adhesive of the tape is protected by release liner.

Article no.	Dimensions	Packing Unit	Liner
PL100134	50 m x 25 mm	32 rolls	yes
PL100138	50 m x 50 mm	16 rolls	yes
PN100148	Tape dispenser	Automatically winds up the release liner (for up to 50 mm wide tape)	

### Contact

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