

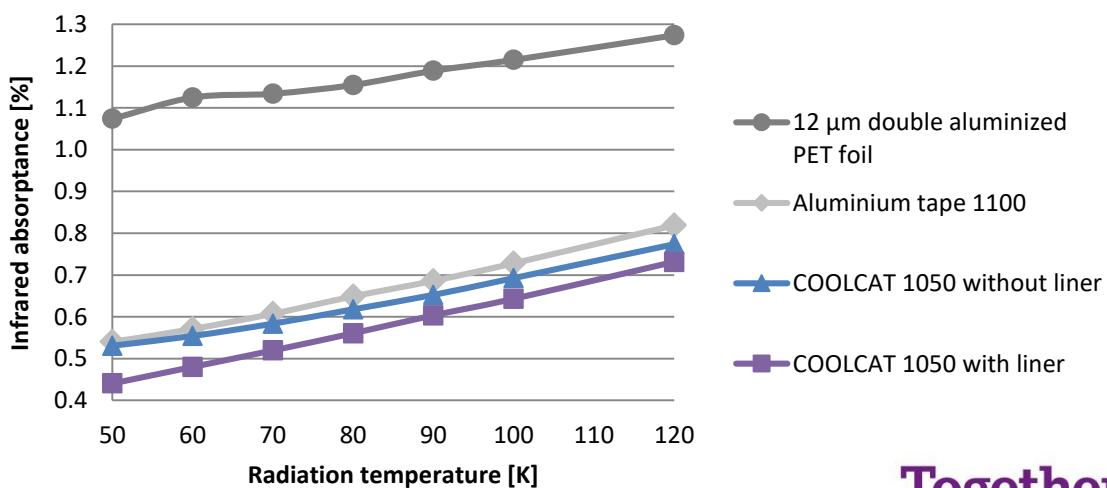
Cryogenic Aluminum Tape COOLCAT 1050

RUAG Space developed a **high purity, low absorptivity** aluminum tape for use in cryogenic applications: COOLCAT 1050. It is applied directly onto 4K surfaces to provide **lowest absorption** of thermal radiation.

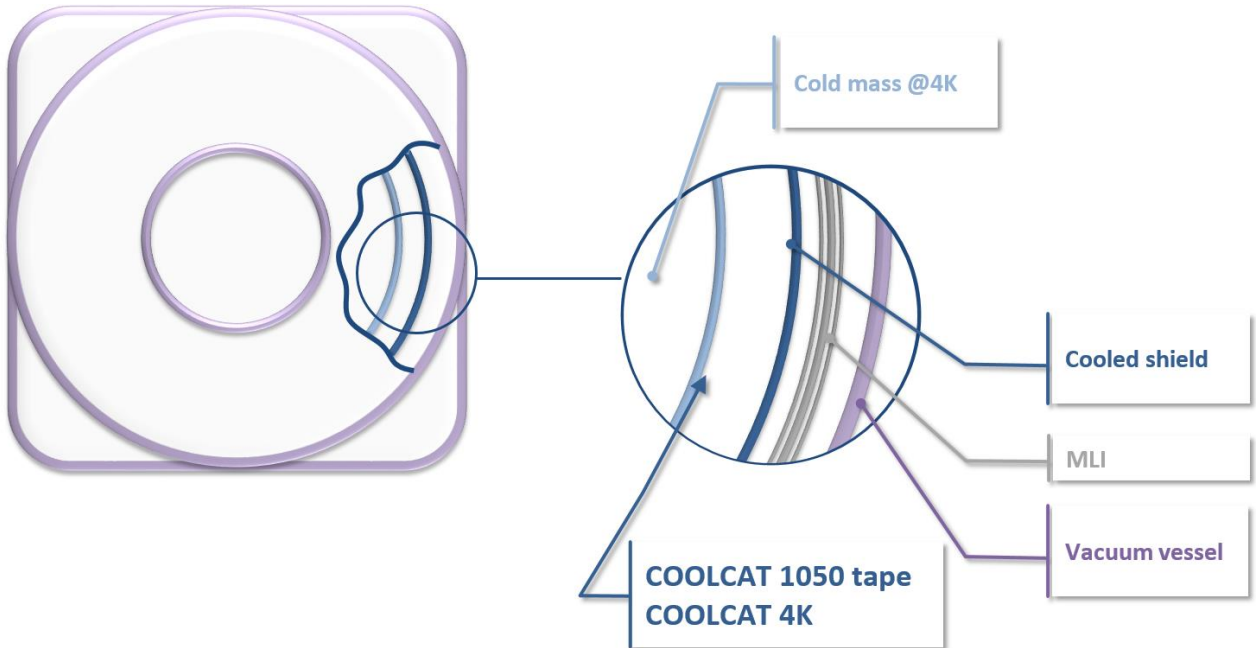


- Composed of an 80 μm **high purity** (99.5 %) **aluminum** foil carrier and a pressure sensitive acrylic adhesive
- **Excellent reflective** and therefore insulation **quality**
- Most recommended for covering surfaces with high absorptivity of thermal radiation like stainless steel or unfinished aluminum in a cryogenic environment such as **helium vessels** of **superconducting magnets** or any other **cold mass**
- The tape meets the standard **outgassing requirements** for **satellites** of the **European Space Agency**
- Especially developed for and **tested at** a temperature of **4K**

**Infrared absorptance at 4K for radiation temperature
(low value required for good radiation insulation)**



Application of COOLCAT 1050



Tested bonding strength on stainless steel at 4K

- Peel strength: 2.9 N / 12 mm width
- Shear strength: 104 N / 144 mm²

Dimensions

The tape is wound on a plastic core. The adhesive of the tape is protected either by release liner or by a coating not containing any silicon on the front side of the tape.

Article no.	Dimensions	Packing Unit	Liner
PL108430	50 m x 50 mm	18 rolls	no
PL108431	50 m x 50 mm	18 rolls	yes
PL108432	50 m x 100 mm	6 rolls	yes
PN100148	Tape dispenser	Automatically winds up the release liner (for up to 50 mm wide tape)	

Contact

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