

MPS/MU/H
LM/lid
Date : 18.1.68

TARGET TEST RECORD LH₂

TARGET REFERENCE : "Marlsruhe Group" Target
DATE : 17.1.68
DESIGNED BY : F. Glythe and L. Mazzoni
GROUP LEADER : H. Schopper and K. Fuchs
RESPONSIBLE FOR CONSTRUCTION : F. Glythe and L. Mazzoni
TESTED BY : L. Mazzoni
DATE TESTED : 17.1.68

1) CHARACTERISTICS

Vol. of vac. tank : 160 l. Material : Aluminium and nylon
Vol. of LH₂ reservoir : 10 l. Material : Stainless steel
Vol. of LH₂ appendix : 2.5 l. Material : Nylon
Vac. Vol./LH₂ vol ratio : 68
Insulation : Aluminium nylon
Vac. tank windows : nylon
Vac. tank rupture disk : aluminium

2) PRESSURE

Vac. tank test pressure : -
LH₂ appendix test pressure : 2 atm.
LH₂ appendix working pressure : 1 atm.
Vac. tank windows bursting pressure : 2.7 atm inner pressure, 3.5 atm. outer pressure
Vac. tank rupture disk bursting pressure : 500 g/cm²

3) VACUUM

Vac. tank at ambient temperature : 10⁻⁴
Vac. Tank at LH₂ temperature : 10⁻⁶

4) LOW TEMPERATURE

Satisfactory with LH₂ : yes
LH₂ evaporation rate : 0.5 l. 1hr. N₂/h.

5) ELECTRICAL

All electrical components accepted : **yes**

6) REMARKS

The target will be transported as soon as possible to the South Experimental Hall.

L. Mazzone
MPS H₂ Safety Officer

cc: A. Pietersen