

DIN EN ISO 20088-2:2020-09 (E)

Determination of the resistance to cryogenic spill of insulation materials - Part 2 : Vapour exposure (ISO 20088-2:2020)

Contents	Page
European foreword	3
Foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Test configurations	7
5 Construction of the test apparatus and substrates	7
5.1 Apparatus	7
5.2 Materials and tolerances	8
5.3 Release nozzle	8
5.3.1 Nozzle construction	8
5.3.2 Nozzle position	9
5.4 Test assembly supports	9
5.5 Test specimen and recirculation chamber	9
6 Cryogenic spill protection materials	10
6.1 General	10
6.2 Wet applied coating systems	11
6.3 Preformed system testing	11
7 Instrumentation for test specimens	11
7.1 General	11
7.2 Thermocouple location	11
8 Test environment	12
9 Test procedure	12
10 Repeatability and reproducibility	13
11 Uncertainty of measurement	13
12 Test report	13
13 Practical applications of test results	14
13.1 General	14
13.2 Performance criteria	15
13.2.1 General	15
13.2.2 Coatings and spray-applied materials — Substrate temperature	15
13.2.3 Systems and assemblies	15
13.3 Factors affecting the validity of the test	16
13.3.1 General	16
13.3.2 Failure at nozzle	16
13.3.3 Failure of thermocouples	16
Annex A (normative) Methods for fixing thermocouples	17
Annex B (informative) Classification	18
Bibliography	20