

ISO 11227:2012-09 (E)

Space systems - Test procedure to evaluate spacecraft material ejecta upon hypervelocity impact

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions, abbreviated terms and symbols	1
3.1 Terms and definitions	1
3.2 Abbreviated terms	3
3.3 Symbols	3
4 General requirements	3
5 Calibration	4
5.1 General	4
5.2 Impact parameters	4
5.3 General environment	4
5.4 Ejecta characterization	5
5.5 Report of calibration tests	5
6 Experimental procedure	5
6.1 General	5
6.2 Impact parameters	5
6.3 General environment	6
6.4 Ejecta characterization and evaluation	6
6.5 Additional tests	7
6.6 Analysis of test results	7
7 Reporting of test results	8
7.1 General	8
7.2 Report of testing of materials	8
7.3 Database	9
8 Quality assurance	9
8.1 General	9
8.2 Quality requirements	9
Annex A (informative) Characterization of material ejected upon impact (ejecta)	11
Annex B (informative) Example of an ejecta model	13
Annex C (informative) Ejecta measurement methods	16
Annex D (informative) Example of a data sheet	20
Annex E (informative) Technical data	22
Bibliography	23