

ISO/ASTM 52929:2025-10 (E)

Additive manufacturing of metals - Powder bed fusion - Presentation of material properties in material data sheets

Contents		Page
Foreword.....		iv
Introduction.....		v
1	Scope.....	1
2	Normative references.....	1
3	Terms and definitions.....	1
4	Abbreviations.....	1
5	Material properties to be displayed.....	2
6	Optional material properties to be displayed.....	2
7	Boundary conditions for the determination of material properties.....	3
	7.1 General.....	3
	7.2 Applied PBF machine(s).....	3
	7.3 Applied feedstock.....	3
	7.4 Applied process parameters.....	4
	7.5 Applied shielding gas.....	4
	7.6 Applied powder spreading device.....	4
	7.7 Post-processing applied.....	4
8	Material property testing.....	5
	8.1 General.....	5
	8.2 Tensile testing.....	5
	8.3 Hardness testing.....	6
	8.4 Density testing.....	6
9	Generating and handling test data.....	6
	9.1 Number of specimens and build jobs.....	6
	9.2 Combination of data.....	7
10	Reporting of characteristic values.....	8
	Annex A (informative) Example of a material data sheet.....	10
	Bibliography.....	14