

# ISO/ASTM 52929:2025-10 (E)

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

---

<b>Contents</b>		<b>Page</b>
Foreword.....		iv
Introduction.....		v
<b>1</b>	<b>Scope.....</b>	<b>1</b>
<b>2</b>	<b>Normative references.....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions.....</b>	<b>1</b>
<b>4</b>	<b>Abbreviations.....</b>	<b>1</b>
<b>5</b>	<b>Material properties to be displayed.....</b>	<b>2</b>
<b>6</b>	<b>Optional material properties to be displayed.....</b>	<b>2</b>
<b>7</b>	<b>Boundary conditions for the determination of material properties.....</b>	<b>3</b>
	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
<b>8</b>	<b>Material property testing.....</b>	<b>5</b>
	8.1 General.....	5
	8.2 Tensile testing.....	5
	8.3 Hardness testing.....	6
	8.4 Density testing.....	6
<b>9</b>	<b>Generating and handling test data.....</b>	<b>6</b>
	9.1 Number of specimens and build jobs.....	6
	9.2 Combination of data.....	7
<b>10</b>	<b>Reporting of characteristic values.....</b>	<b>8</b>
	Annex A (informative) Example of a material data sheet.....	10
	Bibliography.....	14