

ISO/ASTM 52950:2021 (E)

Additive manufacturing — General principles — Overview of data processing

Contents

	Foreword
	Introduction
1	Scope
2	Normative reference
3	Terms and definitions
4	Data exchange
4.1	Dataflow
4.1.1	General
4.1.2	Explanation of the key terms used in Figure 1
4.1.2.1	3D CAD modelling (solid modelling)
4.1.2.2	3D digitalization
4.1.2.3	Surface reconstruction
4.1.2.4	Polygonization/triangulation
4.1.2.5	Facet model
4.1.2.6	Slicing process
4.2	Data formats
4.2.1	General
4.2.2	STL
4.2.3	VRML (WRL)
4.2.4	IGES
4.2.5	STEP
4.2.6	AMF
4.2.7	OBJ
4.2.8	3MF
4.3	Data preparation
4.3.1	The importance of data quality for part quality
4.3.2	Export parameters
4.3.3	Special considerations in data processing
4.3.3.1	Machining allowances
4.3.3.2	Volume reduction
4.3.3.3	Part alignment and supports

Page count: 8