

Evolution of standardisation project on AM - general principles, main characteristics and corresponding test methods

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The draft ISO/ASTM CD 52927 'Additive manufacturing - General principles - Main characteristics and corresponding test methods' has changed from status CD ('Committee Draft' - draft for enquiry, subject to members input) to DIS ('Draft International Standard' - draft for enquiry, subject to public input). This draft specifies the main requirement for testing and characterising of metallic, ceramic or polymer parts manufactured by additive manufacturing.

The document provides:

- A list of quality characteristics of parts and the corresponding test procedures
- Recommendations on the scope and content of test and part supply agreements
- Information on monitoring the process
- Annexes on test methods for metallic, polymer and ceramic materials including the following:
 - Definition of criticality of part
 - Surface requirements
 - Geometric requirements
 - Mechanical requirements;
 - Hardness
 - Tensile strength
 - Impact strength
 - Compressive strength
 - Fatigue strength
 - Crack extension
 - Physical and chemical property requirements
 - Performance criteria and quality characteristics

In addition, the document contains a comprehensive list of standards for various (mechanical) testing and characterisation methods.

If you require any further information, do not hesitate to contact our [Additive Manufacturing team](#)!

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