

DIN EN ISO/ASTM 52948:2026-09 (E)

Additive manufacturing of metals - Powder bed fusion - Classification of imperfections (ISO/ASTM 52948:2026)

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification of imperfections	4
4.1 General.....	4
4.2 Designation.....	5
4.3 Detailed classification of imperfections occurring in additive manufacturing	5
4.3.1 General	5
4.3.2 Crack.....	6
4.3.3 Porosity.....	6
4.3.4 Inclusions	6
4.3.5 Lack of fusion.....	6
4.3.6 Shape, dimensional and surface imperfections	6
4.3.7 Other imperfections	6
Annex A (informative) Illustration of imperfections and associated visual and metallographic controls	22
Annex B (informative) Imperfections deriving from issues related to the process or to the equipment	36
Annex C (informative) Powder imperfections	40
Annex D (informative) Imperfections appearing at subsequent production steps	41
Bibliography	42