

# ISO 10070:2019-12 (E)

**Metallic powders - Determination of envelope-specific surface area from measurements of the permeability to air of a powder bed under steady-state flow conditions**

---

## Contents

	Page
Foreword .....	iv
Introduction .....	v
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	1
4 Symbols .....	3
5 General principles .....	4
5.1 Permeability .....	4
5.2 Carman-Arnell and Kozeny-Carman formulae .....	4
5.3 General .....	5
5.4 Envelope density .....	5
6 Procedure .....	6
6.1 Preparation of test portion .....	6
6.2 Preparation of packed powder bed .....	6
6.3 Determination .....	6
7 Expression of results .....	6
8 Test report .....	7
Annex A (informative) Examples of methods of determining the permeability to air of a powder bed .....	8
Annex B (informative) Preliminary treatment of powder for de-agglomeration .....	17
Bibliography .....	18