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Space systems — Lunar simulants

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This British Standard is the UK implementation of ISO 10788:2014.

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A list of organizations represented on this committee can be obtained on request to its secretary.

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Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Terms and definitions and abbreviated terms **1**
2.1 Terms and definitions 1
2.2 Abbreviated terms 2

3 Characteristics of lunar regolith previously defined in the Lunar Sourcebook© **2**
3.1 Minerologies 2
3.2 Physical and chemical properties 3

4 Quantitative measurement properties of lunar simulants **4**
4.1 General 4
4.2 Comparative baseline 4
4.3 Impurities and contamination 4
4.4 Validation of figures of merit 4
4.5 Composition figure of merit 5
4.6 Size distribution figure of merit 7
4.7 Shape figure of merit 8
4.8 Density figure of merit 8

Bibliography **10**

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Foreword

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The committee responsible for this document is ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 14, *Space systems and operations*.

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Introduction

This International Standard provides lunar systems developers and operators with a specific quantitative measure for lunar regolith simulants in comparison to other simulants and with relation to sampled lunar materials from Apollo and Lunakhod missions. Developers of lunar systems will use simulants as test materials. This International Standard is a reference for quantitative measures of lunar simulants finer than 10 cm. It describes four properties (composition, size, shape, and density) which are the minimum number of properties needed for such uses as comparative testing involving simulants or civil engineering. The quantitative measures of lunar dust simulants are based on the quantitative measures of lunar regolith samples collected at multiple lunar landing sites of the Apollo missions.

This International Standard provides communication of the geological quality of the simulant between developing organizations and systems operations organizations.

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