DIN EN ISO 16610-21:2013-06 (E)

Geometrical product specifications (GPS) - Filtration - Part 21: Linear profile filters: Gaussian filters (ISO 16610-21:2011)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Characteristics of Gaussian profile filter for an open profile 6
4.1 Gaussian weighting function for an open profile 6
4.2 Transmission characteristics of an open profile 7
4.2.1 Transmission characteristic of the long wave component for an open profile 7
4.2.2 Transmission characteristic of the short wave component for an open profile 8
4.3 End effects 9

5 Characteristic of Gaussian profile filter for a closed profile 11
5.1 Introduction ....
5.2 Gaussian weighting function for a closed profile 11
5.3 Transmission characteristic of a closed profile filter 13
5.3.1 Transmission characteristic of the long wave component for a closed profile 13
5.3.2 Transmission characteristic of the short wave profile component 14

Annex A (informative) Implementation errors for open and closed profiles (convolution algorithm) .16

Annex B (informative) Examples ....

Annex C (informative) Relationship to the filtration matrix model 2

Annex D (informative) Relation to the GPS matrix model 26

Bibliography 2