

DIN EN ISO 16610-62:2023-08 (E)

Geometrical product specifications (GPS) - Filtration - Part 62: Linear areal filters: Spline filters (ISO 16610-62:2023)

Contents		Page
European foreword		3
Foreword.....		4
Introduction.....		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Spline areal filter	7
4.1	General.....	7
4.2	Filter formula for cubic spline filter for topography maps on uniformly sampled grids	7
4.2.1	General	7
4.2.2	Regularization parameter	8
4.2.3	Tension parameter.....	9
4.2.4	Matrices of differentiation P and Q	9
4.3	Cubic spline filter for topography maps on distorted sampling grids	10
4.3.1	General	10
4.3.2	Filter formula modification for distorted grids.....	10
4.4	Transmission characteristics	11
5	Filter designation	12
Annex A (informative) Relationship to the filtration matrix model		13
Annex B (informative) Relationship to the GPS matrix model		14
Bibliography		15