

DIN EN ISO 6158:2019-03 (E)

Metallic and other inorganic coatings - Electrodeposited coatings of chromium for engineering purposes (ISO 6158:2018)

Contents	Page
European foreword.....	3
Foreword.....	4
Introduction.....	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Information to be supplied by the purchaser to the processor	7
5 Designation	8
5.1 General.....	8
5.2 Designation specification.....	8
5.3 Designation of basis metal.....	8
5.4 Designation of heat treatment requirements.....	9
5.5 Designation of type and thickness of metal coating.....	9
5.6 Examples of designations.....	10
6 Requirements	10
6.1 Special test specimens.....	10
6.2 Appearance.....	10
6.3 Surface finish.....	11
6.4 Thickness.....	11
6.5 Hardness.....	11
6.6 Adhesion.....	11
6.7 Porosity.....	12
6.8 Stress relief heat treatment prior to coating.....	12
6.9 Hydrogen-embrittlement-relief heat treatment.....	12
6.10 Peening of metal parts.....	12
6.11 Use of undercoats.....	13
6.12 Stripping.....	13
6.13 Corrosion resistance/multilayer chromium plating.....	13
6.14 Surface roughness of electroplated metallic chromium coating.....	13
7 Sampling	13
Annex A (informative) Typical thickness of metallic chromium coatings specified in engineering applications	14
Annex B (normative) Thickness test methods for electroplated metallic chromium and other metallic coatings	15
Annex C (normative) Determination of cracks and pores in metallic chromium coatings	16
Annex D (normative) Classification of different quality/grate of roughness of electrodeposited metallic chromium coatings	17
Bibliography	18