ISO 22180:2019 (E)

CVD diamond tools — Categorization

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Classification of CVD diamond tools

4.1 CVD diamond-coated tools
4.2 CVD diamond thick film tools
4.3 Classification of CVD diamond tools

Annex A (informative) Manufacturing processes — Synthesis of CVD diamond

Annex B (informative) CVD diamond coating modifications

Annex C (informative) Structure and characteristics of MCD and PCD tools

C.1 Structure and characteristics of MCD tools
C.2 Structure and characteristics of PCD tools
C.2.1 General
C.2.2 CVD diamond-coated tools
C.2.3 CVD diamond thick film tools

Annex D (informative) Manufacture of CVD diamond-coated tools

D.1 Manufacture of CVD diamond-coated tools
D.2 Pre-treatment
D.3 Post-treatment
D.4 Manufactures of CVD diamond thick-film tools
D.4.1 General
D.4.2 Substrate material
D.4.3 Preparation of the cutting insert
D.4.4 Attachment to tool holders
D.4.5 Final processing

Page count: 16