ISO 4289:2023-02 (E)

High velocity oxygen fuel (HVOF) cermet coatings for metallurgical roll components - Guidance with requirements

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Recommended HVOF cermet coating materials for various metallurgical rollers **2**

5 Preparation of HVOF cermet coatings for various metallurgical rollers **2**
5.1 Pre-treatment of various metallurgical components 2
5.2 HVOF spraying 3
5.3 Post-process of HVOF sprayed coatings 3

6 Coating quality and performance evaluation **3**
6.1 General 3
6.2 Coating quality 3
6.3 Performance evaluation of coatings 4
6.3.1 Thickness 4
6.3.2 Surface roughness 5
6.3.3 Bonding strength 5
6.3.4 Porosity 5
6.3.5 Microhardness 5
6.3.6 Friction and wear test 6
6.4 Sealing treatment of coatings 9

Bibliography **11**