

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