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Metallic and other inorganic coatings — Test method for the friction coefficient measurement of chemical conversion coatings

Revêtements métalliques et autres revêtements inorganiques — Méthode d'essai pour le mesurage du coefficient de frottement des couches de conversion chimique

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Co	ntents	Page
Fore	eword	iv
Intr	oduction	v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Apparatus	2
5	Test piece	3
	5.1 Dimensions of the test piece	3
	5.2 Preparations	3
6	Test conditions	3
	6.1 General	
	6.2 Test parameters	4
7	Test procedure	4
8	Test report	5
Ribl	liography	7

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Foreword

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This document was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*, Subcommittee SC 8, *Chemical conversion coatings*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The forming properties of sheet metals are highly dependent on the friction that is generated with the dies during the forming process.

Therefore, there is a need to measure the frictional characteristics of the surface of sheet metals.

The measured friction coefficient can change depending on the test conditions and the apparatus status. Moreover, if the apparatus has not been configured properly, it is difficult to ensure reliability and reproducibility. Many traditional methods cause deformation or breakage of the test pieces because of the pressure of the friction block (and its perpendicular pressure to the specimens). In addition, there is no International Standard for metallic coatings, other inorganic coatings and chemical conversion coatings.

This document gives an advanced method that can accurately measure the friction coefficient without deformation of the test pieces during the test.

The test results can vary depending on the test conditions, e.g. surface state, normal force, sliding velocity, temperature. Therefore, it is important that the test conditions are specified.

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