
**Fine ceramics (advanced ceramics,
advanced technical ceramics) —
Measurement of thixotropic behaviour
of ceramic slurry by use of a rotational
viscometer**

*Céramiques techniques (céramiques avancées, céramiques techniques
avancées) — Mesurage du comportement thixotropique d'une
barbotine de céramique à l'aide d'un viscosimètre rotatif*

(<https://standards.iteh.ai>)
Document Preview

ISO 20379:2018

<https://standards.iteh.ai/catalog/standards/iso/ec450846-ef29-4a61-a147-2c043b23a1bf/iso-20379-2018>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 20379:2018

<https://standards.iteh.ai/catalog/standards/iso/ec450846-ef29-4a61-a147-2c043b23a1bf/iso-20379-2018>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
4.1 Evaluation of thixotropic behaviour by hysteresis measurement of flow curve	2
4.2 Evaluation of thixotropic behaviour by time-dependence of shear stress at constant low shear rate	2
5 Apparatus	2
5.1 Measuring system	2
5.2 Basic capacity of the instrument	2
5.3 Calibration of rotational viscometer	3
5.4 Temperature control device	3
6 Pretreatment of the slurry samples	3
6.1 General	3
6.2 Degassing	3
6.3 Dispersion by stirring, mixing and ultrasonication	3
7 Measurement condition	3
7.1 Setting of ceramic slurry to rotational viscometer	3
7.2 Temperature	3
8 Measurement procedure	4
8.1 Measurement of thixotropic behaviour by hysteresis measurement of flow curve	4
8.1.1 Condition of shear rate and setting of measurement range	4
8.1.2 Measurement procedure	4
8.1.3 Analysis method of measurement results	4
8.2 Measurement of thixotropic behaviour by time-dependence of shear stress at constant low shear rate	5
8.2.1 Setting of measurement programme	5
8.2.2 Measurement procedure	5
8.2.3 Analysis method of measurement results	5
9 Test report	6
Bibliography	8