
**Petroleum and natural gas industries —
Drilling fluids — Laboratory testing**

*Industries du pétrole et du gaz naturel — Fluides de forage — Essais
en laboratoire*



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword.....	vii
Introduction	viii
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Symbols and abbreviations	3
5 Barite	6
5.1 Principle	6
5.2 Reagents and apparatus	6
5.3 Sampling	7
5.4 Calculation of moisture content	7
5.5 Sieve analysis	7
5.6 Sedimentation analysis	8
6 Barite performance	12
6.1 Principle	12
6.2 Reagents and apparatus	12
6.3 Base drilling fluid preparation	13
6.4 Rheology test	13
6.5 Calculation	14
7 Abrasiveness of weighting materials	14
7.1 Principle	14
7.2 Reagents and apparatus	15
7.3 Determination of abrasion	15
8 Mercury in drilling fluid barite	17
8.1 Principle	17
8.2 Reagents and apparatus	17
8.3 Preparation of standards	19
8.4 Sample digestion	19
8.5 Check for recovery of Hg during digestion	20
8.6 Analysis of standards and samples	20
8.7 Calculation	20
9 Cadmium and lead in drilling fluid barite	21
9.1 Principle	21
9.2 Reagents and apparatus	21
9.3 Preparation of combined cadmium and lead standards	22
9.4 Sample digestion	22
9.5 Analysis of standards and samples	22
9.6 Calculation	23
10 Arsenic in drilling fluid barite	23
10.1 Principle	23
10.2 Reagents and apparatus	24
10.3 Preparation of standards	25
10.4 Sample digestion	25
10.5 Analysis of standards and samples	26
10.6 Calculation	26
11 Bridging materials for regaining circulation	26