

---

---

**Mechanical pencils and leads  
for general use — Classification,  
dimensions, quality and test  
methods —**

Part 1:  
**Mechanical pencils**

*Porte-mines et mines pour usage général — Classification,  
dimensions, qualité et méthodes d'essai —*

*Partie 1: Porte-mines*





**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2019

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  
Phone: +41 22 749 01 11  
Fax: +41 22 749 09 47  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Classification</b> .....	<b>2</b>
4.1 General.....	2
4.2 Type according to mechanism.....	2
4.3 Type according to marking diameter.....	2
<b>5 Dimensions</b> .....	<b>4</b>
5.1 Bore size.....	4
<b>6 Quality</b> .....	<b>5</b>
6.1 Performance.....	5
<b>7 Test methods</b> .....	<b>5</b>
7.1 Test conditions.....	6
7.2 Bore size dimension.....	6
7.3 Operability.....	6
7.4 Lead holdability (clamping force).....	6
7.5 Residual length of lead.....	6
7.6 Tip load.....	7
7.7 Shock resistance.....	8
7.8 Durability.....	8
<b>8 Designation</b> .....	<b>8</b>
<b>Bibliography</b> .....	<b>9</b>