

INTERNATIONAL  
STANDARD

ISO  
24215

First edition  
2022-06

---

---

**Lignins — Determination of  
carbohydrate composition in kraft  
lignin, soda lignin and hydrolysis  
lignin**



Reference number  
ISO 24215:2022(E)

© ISO 2022



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2022

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  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
Foreword.....	iv
Introduction.....	v
<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 Principle.....</b>	<b>2</b>
<b>5 Apparatus.....</b>	<b>2</b>
<b>6 Reagents.....</b>	<b>3</b>
<b>7 Sampling.....</b>	<b>4</b>
<b>8 Drying.....</b>	<b>4</b>
<b>9 Test Specimens.....</b>	<b>5</b>
<b>10 Procedure.....</b>	<b>5</b>
10.1 General.....	5
10.2 Hydrolysis.....	5
10.3 Determination of monosaccharides.....	5
10.3.1 General.....	5
10.3.2 Determination using an IC instrument.....	5
10.3.3 Determination using a GC instrument.....	6
<b>11 Calculation.....</b>	<b>7</b>
<b>12 Precision.....</b>	<b>8</b>
<b>13 Test Report.....</b>	<b>8</b>
<b>Annex A (informative) Precision.....</b>	<b>10</b>
<b>Annex B (informative) Comparison of GC/FID and IC/PAD analyses of carbohydrates.....</b>	<b>14</b>
<b>Bibliography.....</b>	<b>15</b>