



JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

---

---

JIS Z 8741 : 1997

**Specular glossiness — Methods of  
measurement**

---

**ICS** 17.180.30

**Descriptors** : gloss (of surface), measurement, specular reflection, mirrors

**Reference number** : JIS Z 8741 : 1997 (E)

Z 8741 : 1997

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

Date of Establishment: 1959-03-30

Date of Revision: 1997-09-20

Date of Public Notice in Official Gazette: 1997-09-22

Investigated by: Japanese Industrial Standards Committee  
Divisional Council on Basic Items

---

JIS Z 8741: 1997, First English edition published in 1998-05

Translated and published by: Japanese Standards Association  
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

---

In the event of any doubts arising as to the contents,  
the original JIS is to be the final authority.

© JSA 1998

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 the publisher.

Printed in Japan

PROTECTED BY COPYRIGHT

## Specular glossiness—Methods of measurement

**1 Scope** This Japanese Industrial Standard specifies the methods of measurement for specular glossiness of the macroscopically smooth surface of product of mining and manufacturing industry.

Remarks 1 The following standards are normative references to this Standard:

JIS Z 8105 *Glossary of colour terms*

JIS Z 8120 *Glossary of optical terms*

JIS Z 8401 *Rules for rounding off of numerical values*

JIS Z 8701 *Colour specification—The CIE 1931 standard colorimetric system and the CIE 1964 supplementary standard colorimetric system*

JIS Z 8720 *Standard illuminants and sources for colorimetry*

2 The following standards are the corresponding International Standards to this Standard:

ISO 2813 : 1994 *Paints and varnishes—Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°*

ISO 7668 : 1986 *Anodized aluminium and aluminium alloys—Measurement of specular reflectance and specular gloss at angles of 20°, 45°, 60° or 85°*

**2 Definitions** For the purpose of this Standard the definitions given in JIS Z 8105 and JIS Z 8120 and the following definitions apply:

- (1) **specular reflection** The reflection of light following the law of reflection such as the reflection on specular surface.
- (2) **diffuse reflection** The diffusing reflection of light except specular reflection.
- (3) **specular reflectance** The ratio of the radiant flux of reflection (or reflection of luminous flux) to the radiant flux of incidence (or luminous flux of incidence).
- (4) **specular gloss** The visual sensory attribute mainly determined by the intensity of specular reflection light.
- (5) **specular glossiness** The measured degree of specular gloss expressed by numerical values.
- (6) **receiving light angle** The angle of the optical axis of receiving light system to the normal of sample surface.