

# JIS

JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

---

---

**JIS G 5903** : 2018

(JFSinc/JSA)

**Shot and grit made of cast iron or  
cast steel**

---

ICS 77.140.80

Reference number : **JIS G 5903 : 2018 (E)**

Date of Establishment: 1966-07-01

Date of Revision: 2018-03-20

Date of Public Notice in Official Gazette: 2018-03-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Metal and Inorganic

Materials

---

JIS G 5903:2018, First English edition published in 2018-12

Translated and published by: Japanese Standards Association  
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

---

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

© JSA 2018

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

HT/AT

**Contents**

	Page
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	1
4 Classification and symbols .....	2
5 Quality .....	3
6 Measurement method .....	5
6.1 Apparatus and instruments .....	5
6.2 Sampling .....	6
6.3 Measurement procedure .....	6
7 Re-measurement .....	6
8 Inspection .....	6
9 Designation of product .....	7
10 Marking .....	7

## Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Foundry Society, Inc. (JFSinc)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS G 5903**:1975 is replaced with this Standard, and **JIS G 5904**:1966 has been withdrawn and replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

# Shot and grit made of cast iron or cast steel

## 1 Scope

This Japanese Industrial Standard specifies requirements for shot and grit made of cast iron or cast steel, used for blast cleaning, shot peening, surface preparation, and etching (hereafter referred to as shot and grit, respectively).

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS Z 8801-1 *Test sieves—Part 1: Test sieves of metal wire cloth*

JIS Z 8815 *Test sieving—General requirements*

## 3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

### 3.1

#### shot

spherical metal particles produced from molten metal through atomization

Shot may or may not be heat treated.

### 3.2

#### grit

angular-shaped metal particles produced by crushing shot

Grit may or may not be heat treated.

### 3.3

#### cast iron

ferrous alloy used for producing castings with a carbon content of over 2.14 % up to 6.67 %

### 3.4

#### cast steel

ferrous alloy used for producing castings with a carbon content of 2.14 % or under

### 3.5

#### blast cleaning

cleaning process in which shot or grit is impacted against the surface of a material in order to remove sand, coating film, rust, scale, flashes, etc.