



SURFACE VEHICLE RECOMMENDED PRACTICE

J217™

APR2016

Issued 1970-11
Revised 1994-07
Stabilized 2016-04

Superseding J217 JUL1994

Stainless Steel 17-7 PH Spring Wire and Springs

RATIONALE

The technical report covers technology, products, or processes for which technical expertise no longer resides in the owning committee.

STABILIZED NOTICE

This document has been declared "Stabilized" by the SAE Materials, Processes and Parts Council and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2016 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
<http://www.sae.org>

SAE WEB ADDRESS:

Full document details: SAE J217_201604

SAE values your input. To provide feedback
on this Technical Report, please visit
http://www.sae.org/technical/standards/J217_201604

Documents

Document Sharing Hub

1. Scope—This SAE Recommended Practice covers a high-quality corrosion-resisting steel wire, cold drawn, formed, and heat treated to produce uniform mechanical properties. It is magnetic in all conditions. It is intended for the manufacture of springs and wire forms that are to be heat treated after forming to enhance the spring properties. This document also covers processing requirements of the springs and forms fabricated from this wire.

2. References

2.1 Applicable Publications—The following publications form a part of this specification to the extent specified herein.

2.1.1 ASTM PUBLICATIONS—Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM A 313—Specification for Chromium Nickel Stainless and Heat-Resisting Steel Spring Wire

ASTM A 555—Special-Quality Ball and Roller Bearing Steel

ASTM A 555M—Special-Quality Ball and Roller Bearing Steel, Metric

3. Wire

3.1 The wire shall conform to ASTM A 313 Type 631 Condition CH 900 and ASTM A 555/A 555M.

3.2 Cleaning—Prior to heat treating, the samples will be cleaned to remove all drawing lubricants and metallic or nonmetallic coating by immersing the wire sample in 15 to 25% nitric acid at room temperature for 5 min followed by a thorough water wash.

3.3 Surface Condition—The surface of wire specimens shall be prepared in accordance with 4.3. The prepared specimens shall have a surface free from injurious imperfections, such as seams, pits, die scratches, and other defects which will impair the serviceability of the part.