AS 1912—1976

Australian Standard®

HACKSAW BLADES

The following scientific, industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia

Australian-British Trade Association

CSIRO Division of Tribophysics

University of Melbourne

Manufacturers and users of hacksaw blades.

This standard, prepared by Committee ME/9/2, Multiple Edge Cutting Tools, was approved on behalf of the Council of the Standards Association of Australia on 24 March 1976, and was published on 1 December 1976.

Review of Australian Standards. *To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.*

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This standard was issued in draft form for public review as DR 75044.

AS 1912—1976

Australian Standard®

HACKSAW BLADES

First published 1976
Reconfirmed 1987

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140
ISBN 0 7262 0989 9

PREFACE

This standard was prepared by the Association's Committee on Multiple Edge Cutting Tools.

It was derived from BS 1919:1974, Hacksaw Blades, but there are considerable differences between the two standards. The committee decided to exclude all sampling and testing methods, as those available either rely on material not readily obtained, or are of doubtful validity, statistically or otherwise. It is recognized that this standard is somewhat incomplete because of that exclusion, and the committee is continuing with a performance test evaluation for subsequent incorporation in the standard. Meanwhile, when it is desired to carry out performance testing it is suggested that BS 1919 :1974 be used.

Other differences between this standard and BS 1919 are the exclusion of low alloy steel all-hard, flexible, and spring-back type blades for light power use, and of low alloy steel all-hard type blades for heavy power use.

Description by tooth pitch has been adopted in preference to the customary number of teeth per inch or 25 mm, although number of teeth may also be used to supplement pitch. Marking requirements are more stringent than in BS 1919 :1974.

Material is specified to classifications in AS 1239, Schedule of Tool Steel Compositions, to which reference may be necessary. Reference may also be required to AS 1003, Engineers' Straightedges (Metric Units).

CONTENTS

Page

SECTION 1. SCOPE AND GENERAL

1.1 Scope 4
1.2 Types 4
1.3 Definitions and Nomenclature 4

SECTION 2. REQUIREMENTS

2.1 Material 8
2.2 Heat Treatment 8
2.3 Form and Dimensions 8
2.4 Tolerances 8
2.5 Teeth 8
2.6 Marking 9

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard Specification for HACKSAW BLADES

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This specification includes definitions, materials, form, and dimensions of single-toothed-edge hacksaw blades for hand or power operation, of the types listed in Clause 1.2.

Heat treatment is not covered in detail. Sampling for inspection, and testing requirements are not specified; these are matters: for agreement between the purchaser and the supplier.

Bimetallic and progressive tooth blades are not covered in this specification.

1.2 TYPES. The hacksaw blades are of the following types and type designations:

Low alloy steel, flexible type for hand use . . . . . LAF
High speed steel, all-hard type for hand use . . . . . HSH
High speed steel, flexible type for hand use . . . . . HSF
High speed steel, all-hard type for light power use . . . . . HSHL
High speed steel, all-hard type for heavy power use . . . . . HSHH.

1.3 DEFINITIONS AND NOMENCLATURE. For the purpose of this specification the following definitions and nomenclature apply:

1.3.1 Elements.

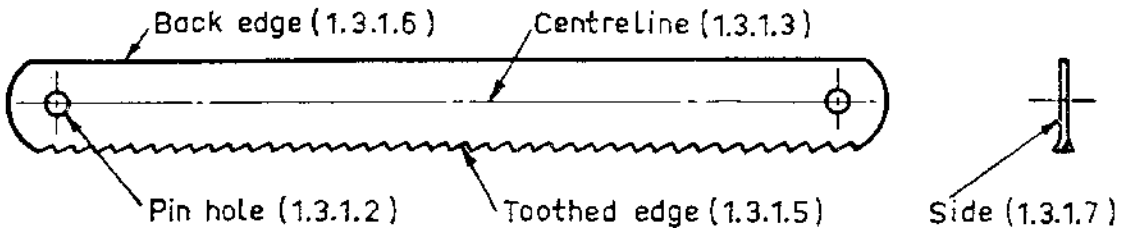


Fig. 1. ELEMENTS