

ASTM Metals Data Series™

DS70 Handbook of Steel Data: American and European

Table of Contents

SECTION I METALLURGY

1. Introduction to the Metallurgy of Ferrous Materials
2. North American Metal Standard Designation Systems
3. European Standard Steel Designation System
4. Metallurgical Terms

- Definitions & Glossary
- English/French Definitions

Glossary arranged by English, French, Spanish & German

Glossary arranged by French, English, Spanish & German

Glossary arranged by Spanish, English, French & German

Glossary arranged by German, English, French & Spanish

SECTION II METALS DATA

5. Cast Irons:
 - Specification Titles & Designations
 - Chemical Compositions
 - Mechanical Properties
6. Castings – Non Alloy/Carbon & Alloy Steels:
 - Specification Titles & Designations
 - Chemical Compositions
 - Mechanical Properties
 - Physical Properties
7. Wrought Non Alloy/Carbon & Alloy Steels:
 - Specification Titles & Designations
 - Chemical Compositions
 - Mechanical Properties
8. Forgings – Non Alloy/Carbon, Alloy & Stainless Steels:
 - Specification Titles & Designations
 - Chemical Compositions
 - Mechanical Properties
 - Heat Treatment
9. Tubular Products – Non Alloy/Carbon, Alloy & Stainless Steels:
 - Chemical Compositions
 - Mechanical Properties
 - Selected Properties
10. Boilers & Pressure Vessels – Non Alloy/Carbon, Alloy & Stainless Steels:
 - Chemical Compositions
 - Mechanical Properties
 - P Numbers & S Numbers
11. Tool Steels:
 - Chemical Compositions
 - Heat Treatment Data
 - Hardness Requirements
 - Selected Properties
12. Flat and Long Wrought Stainless Steels:
 - Chemical Compositions
 - Mechanical Properties
13. Cast Stainless Steels:
 - Chemical Compositions
 - Mechanical Properties
14. Physical Properties:
 - The Elements
 - Non Alloy/Carbon, Alloy & Stainless Steels

SECTION III APPENDICES & INDEX

Appendix 1 Hardness Conversion Tables

Appendix 2 SI Unit Conversions

Appendix 3 Decimal Equivalents of Fractions, Sheet Metal Gage Conversions,
and Wire Gage Conversions

Appendix 4 American Pipe Dimensions

Appendix 5 Delta Ferrite (FN) Diagram

Appendix 6 Periodic Table

Standard Grade/Name Index

UNS Number Index

Steel Number Index

Specification Designation Index