
Table of Contents

1 Fundamentals	1
1.1 What is a Hot Work Tool Steel?	1
1.2 On the History	1
1.3 Classification in the Field of Tool Steels	4
1.4 Designations	4
2 Chemical Compositions and Grades	11
2.1 Alloying Elements in Hot Work Tool Steels	11
2.2 Types	14
3 Microstructure and Properties	17
4 Manufacturing	27
4.1 Melting Metallurgical Production	27
4.2 Powder Metallurgical Production	29
4.3 Further Processing	31
4.4 Heat Treatment	31
4.5 Surface Treatment	37
5 Applications	39
6 Material Data Sheets	45
Literature	69