

# MMPDS-13, Chapter 4

## MAGNESIUM

# TABLE OF CONTENTS

<b>MMPDS-13 - Chapter 4 - MAGNESIUM</b> . . . . .	<b>4-1</b>
<b>4.1 GENERAL.</b> . . . . .	<b>4-1</b>
4.1.1 ALLOY INDEX . . . . .	4-1
4.1.2 MATERIAL PROPERTIES . . . . .	4-1
4.1.3 PHYSICAL PROPERTIES . . . . .	4-4
4.1.4 ENVIRONMENTAL CONSIDERATIONS. . . . .	4-4
4.1.5 ALLOY AND TEMPER DESIGNATIONS. . . . .	4-4
4.1.6 JOINING METHODS . . . . .	4-6
4.1.7 _Obsolete Alloys-Tempers-Forms . . . . .	4-7
<b>4.2 MAGNESIUM-WROUGHT ALLOYS</b> . . . . .	<b>4-9</b>
4-2-1 _AZ31B_Alloy . . . . .	4-9
4-2-2 _AZ61A_Alloy . . . . .	4-21
4-2-3 _WE43C-Elektron43 Alloy . . . . .	4-23
4-2-4 _ZK60A Alloy . . . . .	4-21
<b>4.3 MAGNESIUM ALLOYS.</b> . . . . .	<b>4-43</b>
4-3-1 _AM100A_Alloy . . . . .	4-43
4-3-2 _AZ91C-AZ91E_Alloys . . . . .	4-45
4-3-3 _AZ92A_Alloy . . . . .	4-49
4-3-4 _EV31A-Elektron21_Alloy . . . . .	4-55
4-3-5 _EZ33A_Alloy . . . . .	4-61
4-3-6 _QE22A_Alloy . . . . .	4-66
4-3-7 _ZE41A_Alloy . . . . .	4-70
<b>4.4 ELEMENT PROPERTIES</b> . . . . .	<b>4-75</b>
4.4.1 BEAMS. . . . .	4-75
4.4.2 COLUMNS . . . . .	4-75
4.4.3 TORSION . . . . .	4-77
<b>Chapter 4-References.</b> . . . . .	<b>4-79</b>