

ISO 8353:2024-12 (E)

Steel sheet, zinc-aluminium-magnesium alloy-coated by the continuous hot-dip process, of commercial, drawing and structural qualities

Contents

Page

Foreword	v	
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Dimensions	3
5	Conditions of manufacture	3
5.1	Steelmaking.....	3
5.2	Chemical composition.....	3
5.3	Chemical analysis.....	3
5.3.1	Heat analysis.....	3
5.3.2	Product analysis.....	3
5.4	Mechanical properties.....	5
5.4.1	Commercial and drawing quality.....	5
5.4.2	Structural quality.....	6
5.5	Coating.....	7
5.5.1	Coating bath composition.....	7
5.5.2	Coating type designation and coating bath composition.....	7
5.5.3	Coating mass.....	8
5.5.4	Coating adherence.....	8
5.6	Weldability.....	9
5.7	Painting.....	9
5.8	Coating finish condition.....	9
5.9	Surface treatment.....	9
5.9.1	Mill passivation.....	9
5.9.2	Mill phosphating.....	10
5.9.3	Oiling.....	10
5.9.4	Thin organic film (or Sealing).....	10
5.10	Coated coil joining.....	10
5.11	Dimensional and shape tolerances.....	10
6	Sampling	10
6.1	Tensile test.....	10
6.2	Coating tests.....	10
6.2.1	Coating mass.....	10
6.2.2	Triple-spot test.....	11
6.2.3	Single-spot test.....	11
6.2.4	Coating adherence.....	11
7	Test methods	11
7.1	Tensile tests.....	11
7.2	Coating properties.....	11
7.2.1	Coating mass.....	11
7.2.2	Coating adherence.....	11
7.2.3	Test methods for coating bath composition.....	11
7.2.4	Coating corrosion resistance.....	12
8	Designation system	12
8.1	General.....	12
8.2	Coating type.....	12

8.3	Coating mass	12
8.4	Coating finish condition	12
8.5	Surface treatment	12
8.6	Base-metal quality	13
8.7	Examples	13
9	Retests	14
9.1	Machining and flaws	14
9.2	Elongation	14
9.3	Additional tests	14
10	Resubmission	14
11	Workmanship	14
12	Inspection and acceptance	14
13	Coil size	15
14	Marking	15
15	Information to be supplied by the purchaser	15
Annex A	(normative) Orders requiring base-metal thickness for T1	17
Annex B	(normative) Orders requiring base-metal thickness for T2, T3, T4 and T5	19
Annex C	(informative) Calculation of the coating density	20
Bibliography	21