

ISO 3506-4:2025-01 (E)

Fasteners - Mechanical properties of corrosion-resistant stainless steel fasteners - Part 4: Tapping screws with specified grades and hardness classes

Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Designation system for stainless steel grades and hardness classes	2
4.1	General	2
4.2	Designation of stainless steel grades (first block)	4
4.3	Designation of hardness classes (second block)	4
5	Materials	4
5.1	Chemical composition	4
5.2	Heat treatment for martensitic stainless steel tapping screws	5
5.3	Surface condition (finish and/or coating)	5
5.4	Corrosion resistance	6
5.5	Magnetic properties	6
6	Requirements for mechanical, physical and functional properties	6
6.1	General	6
6.2	Surface hardness for martensitic grades	6
6.3	Core hardness	7
6.4	Thread forming ability	7
6.5	Torsional strength	7
7	Inspection	8
7.1	Manufacturer's inspection	8
7.2	Supplier's inspection	8
7.3	Purchaser's inspection	8
7.4	Delivery of test results	8
8	Test methods	8
8.1	General	8
8.2	Hardness test	9
8.2.1	General	9
8.2.2	Surface hardness test	9
8.2.3	Core hardness test	9
8.2.4	Test results and requirements	9
8.3	Drive test	10
8.4	Torsional test	10
9	Marking and labelling	11
9.1	General	11
9.2	Marking on the tapping screws	12
9.3	Labelling of the packages	12
Bibliography		13