

ISO 630-5:2023-12 (E)

Structural steels - Part 5: Technical delivery conditions for structural steels with improved atmospheric corrosion resistance

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Classification and designation	2
4.1	Classification	2
4.2	Designation (grades and qualities)	2
5	Information to be supplied by purchaser	3
5.1	Mandatory information	3
5.2	Options	3
6	Requirements	3
6.1	Steelmaking process	3
6.2	Delivery condition	3
6.3	Chemical composition	3
6.3.1	Heat analysis	3
6.3.2	Product analysis	3
6.3.3	Carbon equivalent value	4
6.4	Mechanical properties	4
6.4.1	Tensile properties	4
6.4.2	Charpy V-notch impact properties	4
6.5	Surface conditions	4
6.6	Internal soundness	4
6.7	Dimensions, tolerances on dimensions and shape and mass	4
7	Inspection	4
8	Sampling — Frequency of testing	4
8.1	Verification	4
8.2	Test units	5
8.2.1	Test units for grades S235, S295, S355, S420, S460, S500, S550	5
8.2.2	Test units for grades SG245, SG345, SG365, SG400, SG460, SG500, SG700	5
9	Test methods	5
10	Marking	5
11	Information about technological properties	5
11.1	Weldability	5
11.2	Use of steel with improved corrosion resistance	5
Annex A (normative)	Steel grades S235, S295, S355, S420, S460, S500, S550: Chemical composition and mechanical properties	6
Annex B (normative)	Steel grades SG245, SG345, SG365, SG400, SG460, SG500, SG700: Chemical composition and mechanical properties	14
Annex C (informative)	Notes on weldability	20
Annex D (informative)	Additional information for the use of steel with improved atmospheric corrosion resistance	21
Bibliography		22