

ISO 3581:2023-08 (E)

Welding consumables - Covered electrodes for manual metal arc welding of stainless and heat-resisting steels - Classification

Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Classification	2
4.1	General	2
4.2	Classification systems	4
4.2.1	General	4
4.2.2	Classification: nominal composition -- A	5
4.2.3	Classification: alloy type -- B	5
5	Symbols and requirements	5
5.1	Symbol for the product or process	5
5.1.1	Classification according to nominal composition -- A	5
5.1.2	Classification according to alloy type -- B	5
5.1.3	Symbol for the chemical composition of all-weld metal	5
5.2	Symbol for type of electrode covering	6
5.2.1	General	6
5.2.2	Classification according to nominal composition -- A	6
5.2.3	Classification according to alloy type -- B	6
5.3	Symbol for nominal electrode efficiency and type of current	18
5.3.1	Classification according to nominal composition -- A	18
5.3.2	Classification according to alloy type -- B	18
5.4	Symbol for welding position	19
6	Chemical analysis	19
7	Mechanical property tests	19
7.1	General	19
7.2	Preheat and interpass temperatures	19
7.3	Pass sequence	20
8	Fillet weld test	20
9	Rounding procedure	21
10	Retests	21
11	Technical delivery conditions	22
12	Examples of designation	22
12.1	General	22
12.2	Example 1: classification according to nominal composition -- A	22
12.3	Example 2: classification according to alloy type -- B	22
12.4	Example 3: Z classification	23

Annex A (informative) Types of covering	24
Annex B (informative) Considerations on weld metal ferrite contents	26
Bibliography	29