

DIN EN ISO 3580:2011-05 (E)

Welding consumables - Covered electrodes for manual metal arc welding of creep-resisting steels - Classification (ISO 3580:2010)

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Classification	2
4	Symbols and requirements	3
4.1	Symbol for the product/process	3
4.2	Symbol for the chemical composition of all-weld metal	3
4.3	Symbol for the mechanical properties of all-weld metal	3
4.4	Symbol for type of electrode covering	7
4.5	Symbol for nominal electrode efficiency and type of current	8
4.6	Symbol for welding position	8
4.7	Symbol for hydrogen content of deposited metal	9
4.8	Rounding procedure	10
5	Mechanical tests	10
5.1	General	10
5.2	Preheating and interpass temperature	10
5.3	Pass sequence	10
6	Chemical analysis	11
7	Fillet weld test	11
8	Retests	12
9	Technical delivery conditions	12
10	Examples of designation	13
Annex A (informative) Classification systems		14
Annex B (informative) Description of chemical composition designators (classification by chemical composition)		16
Annex C (informative) Description of chemical composition designators (classification by tensile strength and chemical composition)		17
Annex D (informative) Description of types of electrode covering (classification by chemical composition)		18
Annex E (informative) Description of types of electrode covering (classification by tensile strength and chemical composition)		19
Annex F (informative) Notes on diffusible hydrogen		21
Bibliography		22