

DIN EN ISO 898-3:2018-09 (E)

Mechanical properties of fasteners made of carbon steel and alloy steel - Part 3: Flat washers with specified property classes (ISO 898-3:2018)

Contents		Page
European foreword		3
Foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Symbols	7
5	Designation system for property classes of washers and combination with property classes of bolts, screws, studs and nuts	7
6	Materials	8
7	Mechanical and physical properties	9
8	Test methods	10
8.1	Hardness test	10
8.1.1	General	10
8.1.2	Hardness test on the washer bearing surface	11
8.1.3	Hardness determined on a transverse radial section through the washer	14
8.2	Decarburization test	15
8.2.1	General	15
8.2.2	Microscopic method	15
8.2.3	Hardness method	16
8.3	Carburization test	17
8.3.1	General	17
8.3.2	Test procedure	17
8.3.3	Requirements	17
8.4	Retempering test	17
8.4.1	General	17
8.4.2	Test procedure	17
8.4.3	Requirements	17
9	Marking	18
9.1	General	18
9.2	Marking of washers	18
9.3	Marking of packages	13
Annex A (normative) Ductility test for washers of property class 380HV		19
Bibliography		22