

# DIN 17115:2012-07 (E)

## Steels for welded round link chains and chain components - Technical delivery conditions

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
1	Scope .....	4
2	Normative references .....	4
3	Terms and definitions .....	5
4	Classification and designation .....	5
4.1	Classification .....	5
4.2	Designation .....	5
5	Ordering details .....	5
5.1	Required details .....	5
5.2	Optional details .....	6
5.3	Examples of orders .....	6
6	Requirements .....	7
6.1	Steelmaking process .....	7
6.2	Condition on delivery (heat treatment condition and surface finish) .....	7
6.3	Chemical composition .....	7
6.4	Hardenability .....	7
6.5	Mechanical properties .....	7
6.6	Technological properties .....	8
6.7	Grain size .....	8
6.8	Non-metallic inclusions .....	8
6.9	Internal defects .....	8
6.10	Surface condition .....	8
6.11	Dimensions and tolerances, and mass .....	9
7	Testing .....	9
7.1	Type of testing .....	9
7.2	Types of inspection document .....	9
7.3	Scope of tests .....	9
8	Sampling .....	9
8.1	Test unit .....	9
8.2	Sampling and preparation of specimens and test pieces .....	9
9	Test methods .....	11
9.1	Chemical analysis .....	11
9.2	Tensile testing .....	11
9.3	Charpy pendulum impact testing .....	11
9.4	Bend testing .....	11
9.5	Hardness testing .....	11
9.6	Verification of hardenability .....	12
9.7	Grain size .....	12
9.8	Non-metallic inclusions .....	12
9.9	Depth of decarburization .....	12
9.10	Checking dimensions and visual checks .....	12
9.11	Retests, sorting and reprocessing .....	12

<b>10</b>	<b>Marking .....</b>	<b>12</b>
<b>10.1</b>	<b>Mandatory marking .....</b>	<b>12</b>
<b>10.2</b>	<b>Additional marking .....</b>	<b>12</b>