

# DIN EN 10250-1:2022-07 (E)

## Open die steel forgings for general engineering purposes - Part 1: General requirements

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	6
4	Classification and designation .....	6
4.1	Classification .....	6
4.2	Designation .....	6
5	Information to be provided by the purchaser .....	7
5.1	Mandatory information .....	7
5.2	Options .....	7
6	Manufacture of the steel .....	7
6.1	Steelmaking process .....	7
6.2	Deoxidation .....	7
7	Manufacture of the product .....	7
7.1	Hot working .....	7
7.2	Forging reduction .....	8
7.3	Heat treatment .....	8
7.4	Weldability .....	8
8	Surface condition and internal soundness .....	8
8.1	General .....	8
8.2	Removal or surface defects .....	8
8.3	Dimensions, shape, tolerances and nominal mass .....	9
8.4	Compatibility with non-destructive testing (NDT) .....	9
9	Chemical composition .....	9
9.1	Cast analysis .....	9
9.2	Product analysis (optional requirement) .....	9
10	Mechanical properties .....	9
11	Sampling and preparation of test pieces .....	10
11.1	General .....	10
11.2	Methods used for the provision of samples .....	10
11.3	Preparation of test pieces .....	11
12	Mechanical test methods .....	11
12.1	General .....	11
12.2	Hardness tests .....	11
12.3	Tensile tests .....	11
12.4	Impact tests .....	11
12.5	Intergranular corrosion test .....	11
13	Retests and re-heat treatment .....	12

<b>13.1</b>	<b>Retests</b> .....	<b>12</b>
<b>13.2</b>	<b>Re-heat treatment</b> .....	<b>12</b>
<b>14</b>	<b>Inspection</b> .....	<b>12</b>
<b>15</b>	<b>Marking</b> .....	<b>13</b>
<b>Annex A (normative) Options</b> .....		<b>14</b>
<b>Annex B (informative) Ruling section and equivalent thickness</b> .....		<b>16</b>