

# DIN EN 16482:2024-09 (E)

## Founding - Continuous cast iron bars

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
Introduction .....		6
1	Scope .....	7
2	Normative references .....	7
3	Terms and definitions .....	7
4	Designation .....	8
5	Order information .....	9
6	Manufacture .....	9
7	Requirements .....	9
7.1	Characterizing properties .....	9
7.2	Tensile properties .....	9
7.2.1	General .....	9
7.2.2	Test pieces machined from samples cut from the bar .....	10
7.3	Hardness properties .....	13
7.4	Impact energy .....	13
7.5	Graphite structure .....	15
7.5.1	Grey cast iron .....	15
7.5.2	Spheroidal graphite cast iron .....	15
7.6	Matrix structure .....	15
7.7	Straightness .....	15
7.8	Ultrasonic testing .....	16
8	Sampling .....	16
8.1	General .....	16
8.2	Samples cut from a bar .....	16
9	Test methods .....	16
9.1	Tensile test .....	16
9.1.1	General .....	16
9.1.2	Tensile test for grey cast irons .....	16
9.1.3	Tensile test for spheroidal graphite cast irons .....	18
9.2	Hardness test .....	19
9.3	Graphite and matrix structure examination .....	20
9.4	Measurement of straightness .....	20
10	Retests .....	20
10.1	Need for retests .....	20
10.2	Test validity .....	20
10.3	Non-conforming test results .....	21
10.4	Heat treatment of samples and bars .....	21
11	Inspection documentation .....	21
Annex A (informative)	Guidance values for hardness of spheroidal graphite cast iron bars .....	22

<b>Annex B (informative) Dimensional raw and machining allowances for continuous cast bars .....</b>	<b>23</b>
<b>Annex C (normative) Location of samples cut from a bar .....</b>	<b>25</b>
<b>Annex D (informative) Additional information on mechanical and physical properties of spheroidal graphite cast irons .....</b>	<b>26</b>
<b>Bibliography .....</b>	<b>29</b>