

# DIN EN ISO 16120-4:2017-09 (E)

## Non-alloy steel wire rod for conversion to wire - Part 4: Specific requirements for wire rod for special applications (ISO 16120-4:2 017)

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
Foreword .....		4
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Normative references .....</b>	<b>5</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>5</b>
<b>4</b>	<b>Designation .....</b>	<b>5</b>
<b>5</b>	<b>Requirements .....</b>	<b>6</b>
5.1	General .....	6
5.2	Chemical composition and mechanical properties .....	6
5.3	Internal soundness and surface quality .....	9
5.4	Depth of surface discontinuities .....	9
5.5	Depth of decarburization .....	9
5.5.1	General .....	9
5.5.2	Complete decarburization .....	9
5.5.3	Partial decarburization .....	10
5.6	Non-metallic inclusions .....	10
5.7	Core segregation .....	10
5.8	Tensile strength .....	10
5.9	Scale characteristics .....	11
5.10	Mechanical damage .....	11
5.11	Microstructure .....	11
5.11.1	Resolvable pearlite .....	11
5.11.2	Cementite network .....	12
<b>Annex A (informative) Steel designations and designation of comparable steel grades .....</b>		<b>13</b>
<b>Bibliography .....</b>		<b>15</b>