

### 1 Area of application

This Work Standard specifies the raw material requirements for steel and iron (external) from Thomas GmbH, hereinafter referred to as Thomas.

This includes the locations:

- all locations

This Work Standard and the resulting requirements apply to all internal and external people involved in this process.

### 2 Description

Specification of the requirements for material made of steel and iron regarding their Properties.

This company standard is applicable to the purchase of steel and iron products. It is applicable to the purchase of these products by the sub-suppliers of Thomas.

This company standard should be used as an enclosure to the system specifications for raw material purchase and must be used as the basis for the formulation of Q characteristics lists.

#### Quoted standards

See the table 2.1.1

### 2.1 Terms

#### 2.1.1 Properties / Dimensions

The contractor or supplier guarantees the properties specified in the following table at the time of delivery. The dimensions and tolerances of blank steel products must be specified according to DIN EN 10278:2024-01.

Werkstoff	Werkstoff Nr.	Eigenschaften nach DIN	Besondere Eigenschaften / Behandlungen
11SMn 30 + SH	1.0715 + SH	ISO 683-4:2016-07	rolled and peeled
11SMn 30 + C	1.0715 + C	ISO 683-4:2016-07	work-hardened
11SMn 30 + C + A – max. 140 HB	1.0715 + C + A	ISO 683-4:2016-07	work hardened and soft annealed - max. Brinellhärte 140 HB - additionally for square and hexagons: sandblasted after treatment, grain max. 0.5 mm
11SMn Pb 30 + SH	1.0718+ SH	ISO 683-4:2016-07	rolled and peeled
11SMn Pb 30 + C	1.0718 + C	ISO 683-4:2016-07	work-hardened
11SMnPb30+C+A – max. 140 HB	1.0718 + C + A	ISO 683-4:2016-07	work hardened and soft annealed - max. Brinellhärte 140 HB
11SMnPb30+C+A – <=2,4 A/cm	1.0718 + C + A	ISO 683-4:2016-07	work hardened and soft annealed - max. Koerzitivfeldstärke von 2,5 A/cm
RFe 160	1.1011	DIN 17405:1979-09	Koerzitivfeldstärke ≤ 1,8 A/cm
X 10CrNi S 189	1.4305	DIN EN 10088-1: 2024-04	

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X 5CrNi 1810	1.4301	DIN EN 10088-1: 2024-04	
16MnCrS5+C+A	1.7139 + C + A	ISO 683-3:2022-01	work hardened and soft annealed

- The specifications of properties and dimensions in drawings or purchase orders apply for materials that are not listed in the table above.

### 2.1.2 Corrosion protection

The surface of the material must be protected against corrosion.

It must be possible to remove the corrosion-proof agent used with a water-soluble and commercially available cleaning agent.

### 2.2 Factory test certificate

A test certificate in accordance with DIN EN 10204:2005-01 must be supplied for each batch of raw material delivered (*however, not for each delivery of parts*) at the time of delivery, according to the requirement specified in the purchase (2.1.1).

### 3 Associated Documents

none

### 4 Advice

The original/leading document is the german one.