

## Material specification sheet

### Saarstahl - SAE 1215

Material No.:	Standard:	International steel grades:
<b>1.9704</b>	<b>ASTM A29/A29M</b>	<b>JIS: ~ SUM 22, ~ SUM 23</b>

**Material group:** Free-cutting steel

<b>Chemical composition:</b> (typical analysis at Saarstahl in %)	<b>C</b>	<b>Si</b>	<b>Mn</b>	<b>P</b>	<b>S</b>
	0,08	<0,05	1,00	0,07	0,30

Deviation in chemical composition on request

**Application:** Free-cutting steel for bulk applications for joining elements in mechanical engineering and automotive components.

#### Mechanical properties:

**Condition of delivery:** Hot rolled

<b>Thickness [mm]</b>	>16 - 40
<b>0,2% proof stress <math>R_{p0,2}</math> [N/mm<sup>2</sup>]</b>	min. 200
<b>Tensile strength <math>R_m</math> [N/mm<sup>2</sup>]</b>	min. 380
<b>Hardness [HB]</b>	min. 113

**Condition of delivery:** Cold drawn

<b>Thickness [mm]</b>	>16 - 40
<b>0,2% proof stress <math>R_{p0,2}</math> [N/mm<sup>2</sup>]</b>	min. 375
<b>Tensile strength <math>R_m</math> [N/mm<sup>2</sup>]</b>	min. 470
<b>Hardness [HB]</b>	min. 139