

Material specification sheet

Saarstahl - SAE 1215

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

Material group: Free-cutting steel

Chemical composition: (typical analysis at Saarstahl in %)	C	Si	Mn	P	S
	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

Thickness [mm]	>16 - 40
0,2% proof stress $R_{p0,2}$ [N/mm²]	min. 200
Tensile strength R_m [N/mm²]	min. 380
Hardness [HB]	min. 113

Condition of delivery: Cold drawn

Thickness [mm]	>16 - 40
0,2% proof stress $R_{p0,2}$ [N/mm²]	min. 375
Tensile strength R_m [N/mm²]	min. 470
Hardness [HB]	min. 139