

Material specification sheet

Saarstahl - SAE 12L14

Material No.:	Standard:	International steel grades:
1.9718	ASTM A29 / A29M	JIS: ~ SUM 22 L, ~ SUM 23 L, ~ SUM 24 L

Material group: Free-cutting steel

Chemical composition: (typical analysis at Saarstahl in %)	C	Si	Mn	P	S	Pb
	0,08	<0,05	1,10	0,07	0,30	0,25
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