

Material specification sheet

Saarstahl - 30MnVS6 (27MnSiVS6) - Saarform 900

Material No.: German standard: International steel grades:

1.1302 (1.5232) DIN EN 10267 BS:

AFNOR: SAE:

Material group: Dispersion hardening ferritic-pearlitic cold heading steel

Chemical composition:

(typical analysis at Saarstahl in %)

С Si Mn s Cr Τi ٧ Ν 0,30 <0,025 0,65 1,50 <0,020 0,15 0,02 0,12 0,015

Deviation in chemical composition on request

Application:

Micro-alloyed ferritic-pearlitic cold heading steel owing its properties to temperature-controlled rolling and the addition of micro-alloying elements. The mechanical properties required in the finished part are obtained by a specifically matched combination of as-rolled strength and the strain hardening effects of the drawing reduction and the strain-hardening operation.

Use for short and long-shaft ball points, threaded and heavy duty anchor bolts of strength class 800 to 1000 MPa without final quenching and tempering after cold forging.

Hot forming and heat treatment:

Furnace temperature before hot

forming:

1220 - 1280℃

Mechanical properties:

As rolled

5 - 30
about 500
720 - 820
≥ 20
≥ 50
about 50 % ferrite, balance pearlite