



1. Guideboard of other standards

DIN	EN 10027-1	EN 10027-2	EN 10025:90	GOST
St52-3				

2. Chemical composition (heat analysis) in %

C	Mn	Si	P	S	Cr	Ni	Cu	Nb	Al
max. 0,180	max. 1,600	max. 0,550	max. 0,035	max. 0,035	max. 0,300	max. 0,300	max. 0,300	0,02 - 0,08	min. 0,015

3. Mechanical properties

Mechanical properties	Execution	
	heat untreated	normalized
Tensile strength R_m [MPa]	490 - 630	
Yield point R_e [MPa]	315	
Ductility A_{10} [%]		

4. Steel characterization and examples of usage

Plain carbon structural fine-grained high-quality steel suitable for welding. Suitable for welded dynamically stressed parts used in temperature range from +400°C to -50°C made from plates with guaranteed value of impact test in bend to -50°C.