



1. Guideboard of other standards

DIN	EN 10027-1	EN 10027-2	EN 10025:90	GOST
USt42-2				BSt4kp

2. Chemical composition (heat analysis) in %

C	Mn	Si	P	S	N	Al
max. 0,240			max. 0,050	max. 0,050		

3. Mechanical properties

Mechanical properties	Execution	
	heat untreated	normalized
Tensile strength R_m [MPa]	412 - 510	
Yield point R_e [MPa]	min. 226	
Ductility A_{10} [%]		

4. Steel characterization and examples of usage

Plain carbon structural steel suitable for parts of constructions and machines with a medium thickness, fusion welded, statically stressed, possibly even lightly dynamically stressed. Suitable welded for lightly stressed shafts, where wear resistance in the place of shaft support is not required. Toothed wheels, swages, railway vehicles.