



### 1. Guideboard of other standards

DIN	EN 10027-1	EN 10027-2	EN 10025:90	GOST
St52-3	S35530	1.0553	Fe510C1	17GS

### 2. Chemical composition (heat analysis) in %

C	Mn	Si	P	S	N	Al
max. 0,200	max. 1,600	max. 0,550	max. 0,050	max. 0,045		max. 0,015

### 3. Mechanical properties

Mechanical properties	Execution	
	heat untreated	normalized
Tensile strength $R_m$ [MPa]		510 - 680
Yield point $R_e$ [MPa]		min. 355
Ductility $A_{10}$ [%]		min. 22

### 4. Steel characterization and examples of usage

Bridges and other welded constructions, parts of machines, cars, motorcycles and bicycles. Parts of heat-power equipments and pressure vessels.