

SB600

SmeBox designation

SB600

SB600 is a high strength structural steel with good toughness and weldability. It is normalised rolled and delivered as flat and round bars as well as special profiles.

Chemical composition

	C%	Si%	Mn%	P%	S%	V%	CEV %
min.		0,15	0,60				
max.	0,25	0,54	1,70	0,030	0,035	0,13	0,60

Carbon equivalent CEV = $C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15$ %

Mechanical properties

Condition normalized rolled +N	Bar diameter Ø or thickness t mm	Yield strength R _{eh} min. MPa	Tensile strength R _m MPa	Elong- ation A ₅ min. %	Impact strength KV min.		Hardness HBW
					J	T °C	
Round bars	>14 ≤ 40	600	750...900	15	27	0	210...260 ^a
	>40 ≤ 100	600	750...900	15	27	0	210...260 ^a
Flat bars	>5 ≤ 16	580	750...900	15	27	0	210...260 ^a
	>16 ≤ 35	580	750...900	15	27	0	210...260 ^a
	>35 ≤ 60	580	700...900	15	27	0	210...260 ^a

^aInformative

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