

SSAB Form 220 BH

General Product Description

SSAB Form 220BH is a phosphorus alloyed high-strength steel intended for pressing. SSAB Form 220BH features excellent formability combined with high strength. Typical applications are parts and components in vehicles. SSAB Form 220BH achieves its final strength due to a combination of strain hardening during pressing and bake hardening following painting.

Dimension Range

SSAB Form 220BH is available in thicknesses of 0.50-2.00 mm and widths up to 1500 mm as coils, slit coils and as cut to length in lengths up to 8.5 meters.

Mechanical Properties

Yield strength $R_{p0.2}$ (MPa)	Tensile strength R_m (MPa)	Elongation A_{80} (min %)	Yield Strength After Bake Hardening (min MPa)
220- 280	340- 420	30	270

The mechanical properties are tested in the transverse direction of rolling.

Chemical Composition

C (max %)	Si (max %)	Mn (max %)	P (max %)	S (max %)	Al (min %)	Nb+Ti (max %)
0.08	0.04	0.50	0.085	0.03	0.015	0.10

Tolerances

Thickness and width

SSAB Form 220BH is supplied with thickness and width tolerances in accordance to EN 10131. More narrow thickness tolerances according to the SSAB standard are available on request.

Length

Cut to length material is supplied to length tolerances in accordance with EN 10131.

Delivery Conditions

Cold rolled

Fabrication and Other Recommendations

For information concerning welding and fabrication, see SSAB's brochures on www.ssab.com or consult Tech Support, techsupport@ssab.com. Appropriate health and safety precautions must be taken when welding, cutting, grinding or otherwise working on the product.

Contact Information

www.ssab.com/contact