

SP300 (Superplast®) Data Sheet

*Chemical Composition (Nominal Values Weight %)

C	Si	Mn	S	Ni	Cr	Mo	B
0.26	0.10	1.40	0.002	0.30	1.40	0.45	+

*Composition shown is nominal. Actual chemical composition may vary.

Characteristics

SP300 is a prehardened steel for medium and very large - size molds and tools with good machinability. Consistent texturing and polishing improved by very low sulphur content and hardness homogeneity. Reliable repair welding and high thermal conductivity.

Applications

SP300: for use in plastic injection mold cores and cavities, large - size molds for bumpers, dashboards, television panels, bottle crates, etc.

Mechanical Properties

SP300 is delivered quenched and tempered to 290 - 330 HB (30 - 35 HRC).

Hardness		Rp 0.2 Yield Strength		Rm Tensile Strength		Elongation	Reduction of area	K C V 20°C	Elastic modulus	
HB	MPa	ksi	MPa	ksi	%	Z%	J	GPa	ksi	
300	895	130	1000	145	16	60	35	205	29733	

Typical values

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