

Steel grade

Material No.	PREMIUM 420LC
AISI	420LC
Search for alternatives in the ABRAMS STEEL GUIDE	www.abrams-steelguide.com/alternatives/420LC

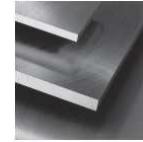
Shapes



Precision Ground Flat Stock Metric oversize [GFSM O/S]
L: 500 mm



Smart Flat Stock [Smart] Standardized Precision Blanks
L: 12"
L: 24"



Smart Flat Stock Metric [SmartM] Standardized Precision Blanks Metric
L: 300 mm
L: 600 mm

Chemical composition AISI 420LC (reference value %) + additives

C	Si	Mn	S	Cr	Ni
0.05 - 0.05	0.2 - 0.3	0.9 - 1	0.12 - 0.12	12.5 - 12.5	0.4 - 0.45

Physical properties

Hardness (delivery condition)	max. 330 HB, tempered
Tensile strength R_m (as received condition)	approx. 163.1 KSI
Working hardness	max. 35 HRC

Technical properties

Pre-hardened, corrosion resistant plastic mold steel. Magnetisable, excellent machinability and good weldability. Resistant to aggressive plastics and humid conditions. Further heat treatment is not intended.

Applications

Mechanical engineering, apparatus engineering, plastic processing, injection tools, base plates, assembling parts, molding frames, plastic molds, extrusion tools, valves, steam valves, water valves, fittings parts, pump construction, pump rods, compressor construction, compressor parts, surgical instruments.

Heat treatment

	Temperature	Cooling	Hardness
Soft annealing	1562 - 1616°F	Furnace	max. 330 HB
Stress relief annealing	Temperature	Cooling	
	896°F	Furnace	
Hardening	Temperature	Quenching in	
	1832 - 1922°F	Oil	

