

## Gateway HC16S (1.2085)

### Stainless Holder Block

Gateway HC16S is Stainless Martensitic Steel with excellent machinability. The high Chromium content provides excellent corrosion resistance. Product is supplied pre-hardened with a thru hardness of 280-325 BHN.

### Tap Chemistry

	Min	Max			Min	Max
Carbon	0.28	0.38		Chromium	15.00	17.00
Silicone		0.80		Phosphorus		0.03
Manganese		1.40		Nickel		1.00
Sulfur	0.05	0.10				

### Applications

Suitable for use as holder material, mold bases, plastic extrusion dies, backing plates, ejector plates

### Heat Treatment: Soft annealing

Temperature	Cooling	Hardness
1380 - 1560 F	furnace	max. 280 HB

### Stress relief annealing

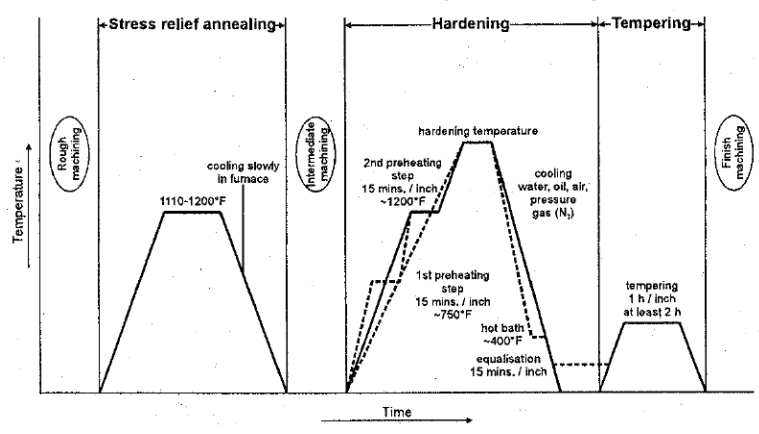
The recommendation 930-1020F is valid for quenched and tempered condition. In the soft annealed condition stress relieving between 1110 - 1200F is possible

Temperature	Cooling	Hardness
930 - 1020 F	furnace	max. 280 HB

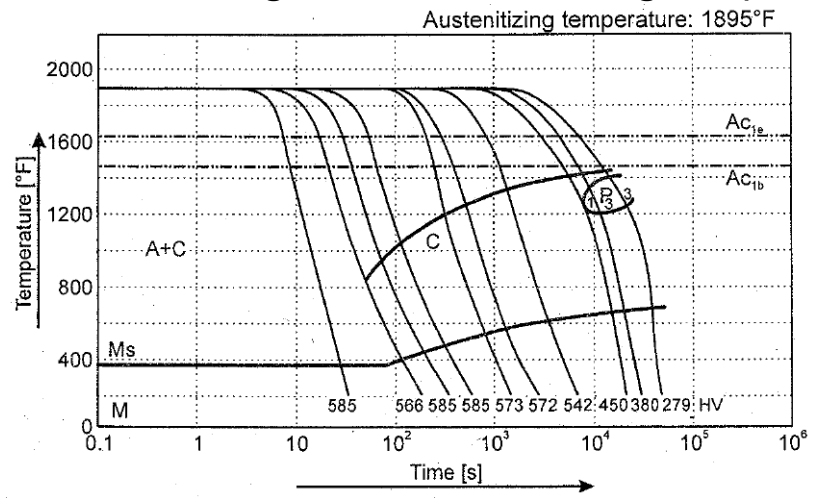
### Hardening

Temperature	Cooling	Hardness
1830-1895 F	oil, pressure gas (N <sub>2</sub> ) on air	see tempering diagram

## (1.2085) Thermal Cycle Diagram



## Continuous Cooling Transformation Diagram (CCT)



## Tempering Diagram

