

# HX Data sheet

HX is one of the most widely used nickel base superalloys for gas turbine engine components. This solid solution strengthened grade has good strength and oxidation resistance to 2000°F

### Alloy Highlights

- Good high temperature strength
- Carburization resistant
- Good Oxidation Resistance

### Typical Applications

- Combustion liners
- Turbine exhaust components
- Aircraft cabin heaters
- Transition Ducts

Mechanical Properties (as Sintered)		
Test	Horizontal	Vertical
Tensile Strength	123 +/-5	104 +/-5
Yield Strength	98 +/-7	83 +/-7
Elongation at break	30 +/-7 %	46 +/-5 %
Hardness (HBW)		176
Density (lb/in <sup>3</sup> )		0.294

Chemistry		
Element	Range (%)	
	Min	Max
Al		0.5
B		0.01
C		0.10
Co	0.5	2.5
Cr	20.5	23.0
Cu		0.5
Fe	17.0	20.0
Mn		1.0
Mo	8.0	10.0
Ni	Balance	
P		0.04
S		0.03
Se		0.005
Si		1.0
Ti		0.15
W	0.2	1.0

### Applicable Chemistry Specifications

- AMS 5536    AMS 5754    AMS 5798
- EN 2.4665    UNS N06002    ASME SB 435
- ASME B 572    ASTM B435    ASTM B 572