

Alloy 20 is a highly alloyed austenitic stainless steel developed primarily for use in the sulfuric acid related processes. Alloy 20 is used in a wide variety of applications from Sulfuric acid pickling tanks, racks and heating coil, Heat Exchangers, Process piping, Chemical and petroleum process equipment etc.

Alloy 20 Specification

UNS	W.Nr
N08020	2.4660

Alloy 20 Chemical composition

Grade	%	Ni	Cr	Fe	Mo	C	Mn	Si	S	Cu	P
Alloy	Min.	32	19	Bal.	2					3	
20	Max	38	21		3	0.07	2	1	0.03	4	0.03

Alloy 20 Mechanical properties: (Minimum value at 20°C)

Tensile Strength σ_b /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation σ_5 /%
≥600	≥320	≥35

Alloy 20 Standard

Bar/Rod	Forging	Sheet/Strip	Wire	Pipe/Tube
ASTM B473	ASTM B462	ASTM B463	ASTM B471	ASTM B729 ASTM B468 ASTM B464

Alloy 20 Size Range

- Wire: Dia 0.08-12mm
- Bar: Dia 1.0-300mm
- Strip(Coil): 0.2-20mm TCK x 10-300mm W
- Sheet: min.0.7mm TCK x 1200mm W max.
- Tube & Forging & Machine Parts: customized
- Welding wire: 0.8mm,1.0mm,1.2mm,2.0mm,2.4mm,3.2mm,3.8mm,4.0mm etc
- Welding Strip: 0.4-0.7mm TCK x 25-60mm W