

Lean Austenitic Stainless Alternatives

The hottest idea in Lean Austenitic Substitution... *patents pending

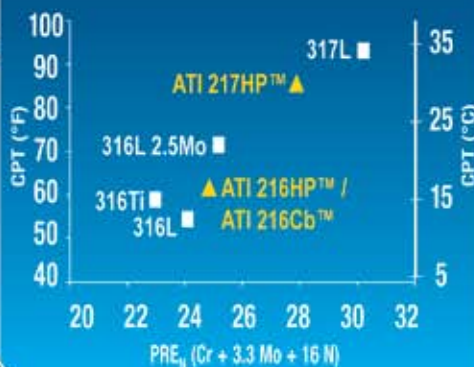
NEW from ATI Allegheny Ludlum:

ATI 216 HP™ Alloy*, ATI 216 Cb™ Alloy*, ATI 217™ Alloy*

Benefits

- Equivalent or better performance to the comparative alloy at a reduced cost with a leaner composition
- UNS, ASTM & ASME specification coverage in process
- "Drop ins" for existing alloys
- Stabilized chemistry available to substitute for 321/316Ti

Critical Pitting Temperatures



Alloy	"Lean" Chemistry					PRE _n
	Cr	Ni	Mo	N	Other	
316L (1.4404)	16	10	2.1	0.02		23
316L 2.5 min Mo (1.4432)	16	10	2.1	0.02		25
316Ti (1.4571)	17	11	2.2	0.01	0.3Ti	23
ATI 216 HP™	18	4.5	1	0.2	5Mn	25
ATI 216 Cb™	18	5.5	1	0.17	5Mn, 0.3Cb	24
ATI 217 HP™	20	6	1.5	0.25	6Mn	29
317 L (1.4434)	18.5	12.5	3.2	0.02		29

Typical Mechanical Properties For Annealed Sheet

Alloy	Yield (ksi/Mpa)	Tensile (ksi/Mpa)	Elongation (%)	Olsen Cup Height (mm)
316L (1.4404)	45/310	90/620	>50	0.45
316L 2.5 min Mo (1.4432)	45/310	90/620	>50	0.45
316Ti (1.4571)	45/310	90/620	>50	0.45
ATI 216 HP™	47/331	110/759	>50	0.45
ATI 216 Cb™	53/366	110/759	>50	0.43
ATI 217 HP™	55/380	110/759	>40	0.37
317 L (1.4434)	45/310	95/656	>40	0.40



Your Solution to Volatile High Raw Material Surcharges

The Switch Is On!®

Our new lean austenitic alloys are designed to be cost competitive with 316 and its variants with improved corrosion resistance.

Contact us right away for additional information:

leanaustenitics@alleghenyludlum.com or +724.226.6557



The Switch Is On!®



For more information, contact us at +724.226.6557
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