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$\%C + \%N \leq 0.65 + 0.38(\%V) + 0.08[(\%Mo) + 0.5(\%W)]$ .

2. The alloy set forth in claim 1 containing at least about 0.35 w/o carbon.
3. The alloy set forth in claim 2 containing at least about 0.25 w/o nitrogen.
4. The alloy set forth in claim 3 containing at least about 0.35 w/o nitrogen.
5. The alloy set forth in claim 1 containing not more than about 8.5 w/o manganese.
6. The alloy set forth in claim 5 containing not more than about 8.0 w/o manganese.
7. The alloy set forth in claim 6 containing not more than about 7.5 w/o manganese.
8. The alloy set forth in claim 1 containing not more than about 0.75 w/o silicon.
9. The alloy set forth in claim 1 containing about 19.0-25.0 w/o chromium.
10. The alloy set forth in claim 1 containing not more than about 3.5 w/o vanadium.
11. The alloy set forth in claim 1 wherein  $\%Ni + \%Mn$  is not more than about 16.0 w/o.
12. The alloy set forth in claim 1 wherein  $C + N$  is at least about 0.8 w/o.
13. A precipitation strengthenable, austenitic steel alloy that provides a good combination of high temperature strength, corrosion resistance, and wear resistance, said alloy, in weight percent, consisting essentially of about

	w/o
Carbon	0.35-0.90
Manganese	3.0-8.5
Silicon	2.0 max.
Phosphorus	0.05 max.
Sulfur	0.015 max.
Chromium	19.0-25.0
Nickel	4.5-10.0
Molybdenum	0.5 max.
Vanadium	0.75-3.5
Boron	0.015 max.
Nitrogen	0.25-0.85
Tungsten	0.5 max.
Niobium	0.5 max.

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and the balance essentially Iron, wherein

$\%C + \%N \leq 0.65 + 0.15(\%V) + 0.04[(\%Mo) + 0.5(\%W)]$ , and

$\%C + \%N \leq 0.65 + 0.38(\%V) + 0.08[(\%Mo) + 0.5(\%W)]$ .

14. The alloy set forth in claim 13 containing at least about 0.35 w/o nitrogen.
15. The alloy set forth in claim 14 containing not more than about 8.0 w/o manganese.
16. The alloy set forth in claim 15 containing not more than about 7.5 w/o manganese.
17. The alloy set forth in claim 16 containing not more than about 0.75 w/o silicon.
18. The alloy set forth in claim 17 containing not more than about 8.5 w/o nickel.
19. The alloy set forth in claim 18 wherein  $\%Ni + \%Mn$  is not more than about 16.0 w/o.
20. A precipitation strengthenable, austenitic steel alloy that provides a good combination of high temperature strength, corrosion resistance, and wear resistance, said alloy, in weight percent, consisting essentially of about

	w/o
Carbon	0.40-0.80
Manganese	3.0-7.5
Silicon	2.0 max.
Phosphorus	0.05 max.
Sulfur	0.015 max.
Chromium	20.0-24.0
Nickel	6.0-10.0
Molybdenum	0.5 max.
Vanadium	1.0-2.5 max.
Boron	0.02 max.
Nitrogen	0.35-0.75
Tungsten	0.2 max.
Niobium	0.2 max.

and the balance essentially Iron, wherein

$\%C + \%N \leq 0.65 + 0.15(\%V) + 0.04[(\%Mo) + 0.5(\%W)]$ , and

$\%C + \%N \leq 0.65 + 0.38(\%V) + 0.08[(\%Mo) + 0.5(\%W)]$ .

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