

# Ultra Fine Product Information



U L T R A F I N E

Alloy	UFP Code	Fe	C	Si	Mn	Cr	Mo	Ni	Co	Al	Cu	Others
304L	2113	Balance	≤0.03	≤1.0	≤2.0	18.0-20.0		8.0-12.0				
316L	3169	Balance	≤0.03	0.2-0.6	1.0-1.5	16.2-17.1	2.05-2.40	10.1-11.0				
316L MA	2350	Balance	≤0.03	0.4-0.6	1.2-1.5	42.3-43.6	5.2-5.7	25.8-26.8				
316L 3X MA	2390	Balance	≤0.03	≤1.0	≤0.5	51.6-53.4	6.6-7.9	37.0-39.0				
410	2244	Balance	≤0.15	≤1.0	≤1.0	11.5-13.5						
420	2290	Balance	0.40-0.45	≤1.0	≤1.0	12.0-14.0						
420 MA	2386	Balance	0.80-1.00	≤1.5	≤2.0	49.0-51.0						
430L	2178	Balance	≤0.03	≤1.0	≤1.0	16.0-18.0						
440C	2176	Balance	1.00-1.15	≤1.0	≤1.0	16.0-18.0						
17-4PH	2114	Balance	≤0.07	≤0.5	≤0.5	15.5-17.5		3.5-4.5			3.4-4.5	Nb 0.15-0.45
17-4PH MA	2315	Balance	≤0.04	≤2.4	≤3.0	46.5-52.5		9.0-15.0			9.0-15.0	Nb 0.45-1.35
FeCrAlY	2313	Balance	≤0.08	≤1.0	≤1.0	22.0-23.0				6.0-7.0		Y ≤0.1
Fe2Ni	2378	Balance	0.15-0.35	≤1.0			≤0.50	1.5-2.5				
Fe8Ni	2254	Balance	≤0.03	≤1.0	≤1.0			7.5-8.5				
4140	3175	Balance	0.38-0.43	0.15-0.35	0.75-0.9	0.9-1.1	0.15-0.25	≤0.25			≤0.25	
4340	2115	Balance	0.38-0.43	0.15-0.30	0.6-0.8	0.7-0.9	0.2-0.3	1.65-2.0				
SCM415	2203	Balance	0.13-0.18	0.15-0.35	0.6-0.85	0.9-1.2	0.15-0.30	≤0.25			≤0.3	
SCM440	2204	Balance	0.38-0.43	0.15-0.35	0.6-0.85	0.9-1.2	0.15-0.30	≤0.25			≤0.3	
D2	2195	Balance	1.40-1.60	≤0.6	≤0.6	11.0-13.0	0.7-1.2		≤1.0			V ≤1.10
M2	2133	Balance	0.78-1.05	0.2-0.45	0.15-0.4	3.75-4.5	4.5-5.5					V 1.75-2.20 W 5.5-6.75
T15	2191	Balance	1.50-1.60	0.15-0.4	0.15-0.4	3.75-5.0	≤1.0		4.75-5.25			V 4.5-5.25 W 11.75-13.00
H13	3195	Balance	0.32-0.45	0.8-1.2	0.20-0.5	4.75-5.5	1.1-1.75	≤0.3			≤0.25	V 0.8-1.2
1.2709 (M300)	2455	Balance	≤0.03	≤0.1	≤0.15	≤0.25	4.5-5.2	17.0-19.0	8.5-10.0			Ti 0.8-1.2
F15	2144	Balance	≤0.04	≤0.20	≤0.5	≤0.2	≤0.2	27.0-31.0	15.0-19.0	≤0.10	≤0.2	
Fe30Ni	2340	Balance	≤0.03	≤1.0	≤1.0			29.0-31.0				
Fe8Cr	2397	Balance	≤0.03	0.3-1.0	0.2-0.8	7.5-8.5	0.2-0.5					
Fe30Cr	2126	Balance	≤0.05	≤1.0	≤1.0	27.0-33.0						
FeCoV (Permendur)	2125	Balance	Report	≤1.0				≤1.0	48.0-50.0			V 1.0-3.0
FeSiAl (Sendust)	2181	Balance	≤0.02	8.0-10.0						5.0-7.0		
Supermalloy	2468	13.2-15.2	≤0.02	0.05-0.25	0.3-0.7	≤0.15	4.5-5.5	Balance	≤1.0	≤0.02	≤0.02	

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Cu-Elec	3124	≤0.02	Report	≤0.02		≤0.02		≤0.02	≤0.02	≤0.02	Balance	
Cu-MIM	3123	≤0.10	Report								Balance	
C18000	3212	≤0.15	≤0.001	0.4-0.8		0.1-0.8		1.8-3.0			Balance	
INC-625	2266	3.0-5.0	≤0.1	≤0.1	≤0.5	21.0-23.0	8.0-10.0	54-69	≤1.0	≤0.4	≤0.5	Nb 3.15-4.15 Ti ≤0.4
INC-718	2366	≤19.0	0.02-0.08	≤0.35	≤0.35	17.0-21.0	2.8-3.3	Balance	≤0.3	0.3-0.7	≤0.5	
Nimonic90	2365	≤1.0	≤0.13	≤0.3	≤0.3	18.0-21.0		Balance	15.0-21.0	1.0-2.0	≤0.2	B ≤0.02 Zr ≤0.15 Ti 2.0-3.0
Haynes 25	2371	≤3.0	0.05-0.15	≤0.40	1.2-2.0	19.0-21.0		9.0-11.0	Balance			W 14.0-16.0
F75	2465	≤0.1	≤0.25	0.3-0.9	0.3-0.9	27.0-30.0	5.0-7.0	≤0.1	Balance	≤0.1		