Stainless Steel Powder for Pressing & Sintering

Chemical Analysis		303	304	316	303L	304L	316L
Test Name	**Unit**	**Specification**					
Cr (Chromium)	wt%	17-19	18-20	16-18	17-19	18-20	16-18
Ni (Nickel)	wt%	8-13	8-12	10-14	8-13	8-12	10-14
Mo (Molybdenum	wt%	-	-	2-3	-	-	2-3
Sn (Tin)	wt%	-	-	-	-	-	-
Cu (Copper)	wt%	-	-	-	-	-	-
S (Sulfur)	wt%	0.15-0.30	≤0.03	≤0.03	0.15-0.30	≤0.03	≤0.03
P (Phosphorus	wt%	≤0.20	≤0.04	≤0.04	≤0.20	≤0.04	≤0.04
C (Carbon)	wt%	≤0.15	≤0.08	≤0.08	≤0.03	≤0.03	≤0.03
Si (Silicon)	wt%	≤1	≤1	≤1	≤1	≤1	≤1
Mn (Manganese)	wt%	≤2	≤2	≤2	≤2	≤2	≤2
Fe (Iron)	wt%	bal.	bal.	bal.	bal.	bal.	bal.

Stainless Steel Powder for Pressing & Sintering

Chemical Analysis		**317 L**	**314**	**310**	**303 LSC**	**304 LSC**	**316 LSC**
Test Name	**Unit**	**Specification**					
Cr (Chromium)	wt%	18-21	24-27	24-26	17-19	17-19	16-19
Ni (Nickel)	wt%	12-16	18-21	19-22	8-13	8-13	10-14
Mo (Molybdenum	wt%	3-4	-	-	-	-	2-3
Sn (Tin)	wt%	-	-	-	1	1	1
Cu (Copper)	wt%	-	-	-	2	2	2
S (Sulfur)	wt%	≤0.03	≤0.03	≤0.03	0.15-0.30	≤0.03	≤0.03
P (Phosphorus	wt%	≤0.04	≤0.04	≤0.04	≤0.20	≤0.04	≤0.04
C (Carbon)	wt%	≤0.03	≤0.20	≤0.08	≤0.03	≤0.03	≤0.03
Si (Silicon)	wt%	≤1	1.5-2.5	≤1	≤1	≤1	≤1
Mn (Manganese)	wt%	≤2	≤1.5	≤2	≤2	≤2	≤2
Fe (Iron)	wt%	bal.	bal.	bal.	bal.	bal.	bal.

Stainless Steel Powder for Pressing & Sintering

Chemical Analysis		409 L	409 LE	410 L	430 L	434 L	434 LNb
Test Name	**Unit**	**Specification**					
Cr (Chromium)	wt%	10.50-11.75	10.50-11.75	11.50-13.50	16-18	16-18	16-18
Ni (Nickel)	wt%	-	≤0.5	-	-	-	-
Mo (Molybdenum	wt%	-	-	-	-	0.75-1.25	0.75-1.25
Sn (Tin)	wt%	-	-	-	-	-	-
Cu (Copper)	wt%	-	-	-	-	-	-
Nb (Niobium)	wt%	8*C-0.8	8*C-0.8	-	-	-	0.4-0.6
S (Sulfur)	wt%	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03
P (Phosphorus	wt%	≤0.04	≤0.04	≤0.04	≤0.04	≤0.04	≤0.04
C (Carbon)	wt%	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03
Si (Silicon)	wt%	≤1	≤1	≤1	≤1	≤1	≤1
Mn (Manganese)	wt%	≤1	≤1	≤1	≤1	≤1	≤1
Fe (Iron)	wt%	bal.	bal.	bal.	bal.	bal.	bal.

Stainless Steel Powder for Pressing & Sintering

Chemical Analysis		**410**	**420**	**430**	**434**	**440**	**17-4PH**
Test Name	**Unit**	**Specification**					
Cr (Chromium)	wt%	11.5-13.5	12-14	16-18	16-18	16-18	15.5-17.5
Ni (Nickel)	wt%	-	-	-	-	-	3-5
Mo (Molybdenum	wt%	-	-	-	0.75-1.25	-	-
Sn (Tin)	wt%	-	-	-	-	-	-
Cu (Copper)	wt%	-	-	-	-	-	3.00-5.00
Nb (Niobium)	wt%	-	-	-	-	-	0.15-0.45
S (Sulfur)	wt%	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤ 0.03
P (Phosphorus	wt%	≤0.04	≤0.04	≤0.04	≤0.04	≤0.04	≤0.04
C (Carbon)	wt%	≤0.25	0.25-0.35	≤0.08	≤0.08	0.9-1.2	≤0.07
Si (Silicon)	wt%	≤1	≤1	≤1	≤1	≤1	≤1
Mn (Manganese)	wt%	≤1	≤1	≤1	≤1	≤1	≤1
Fe (Iron)	wt%	bal.	bal.	bal.	bal.	bal.	bal.