

ul. Grabiszyńska 241H 53-234 Wrocław www.wolften.pl tel. +48 71/3334716 fax +48 71/3632187 wolften@wolften.pl

+48603575500 m.konvs@wolften.p Kamil Wróblewski +48604304111 Michał Siemieniec +48603600262 m siemieniec@wolften n



Stainless steel 316L spherical powder

316L (UNS S31603 / 1.4404) is an 18/8 austenitic stainless steel with an addition of 2.5% Molybdenum, to provide superior corrosion resistance to type 304 stainless steel. 316L has improved pitting corrosion resistance and has excellent resistance to sulphates, phosphates and other salts. 316L has better resistance than standard 18/8 types to sea water, reducing acids and solution of chlorides, bromides and iodies.

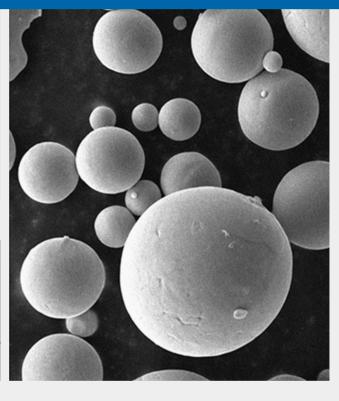
Type 316/316L has been used in handling many chemicals used by the process industries, including pulp and paper, textile, food, pharmaceutical, medical, and other chemical processing.

CHEMICAL COMPOSITION

	MIN	MAX
Cr	17.5	18.0
Ni	12.7	10-14
Мо	2.25	2.50
Mn	1.25	2
С	-	<0.03
S	-	<0.03
Cu	-	<0.75
Si	-	<0.75
Р	-	<0.025
Fe	Balance	Balance

MECHANICAL COMPOSITION

	Horizontal direction (XY)	Vertical direction (Z)
Ultimate tensile strength Rm (MPa)	540	538
Yield strength Rp0.2 (MPa)	374	368
Elongation (%)	28	24



PHYSICAL PROPERTIES

Particle Size Range	0 - 53 μm	53 - 105 μm
Morphology	Spherical	Spherical
Particle size distribution	D10: 15μm	D10: 55μm
	D50: 35μm	D50: 76µm
	D90: 58μm	D90: 102μm
Angle of repose	≤40°	
Apparent density	3.8 g/cm ³	4.1 g/cm ³

Standards satisfied: ASTM F745, ASTM F138, ASTM F75



