



Specification sheet for stainless steel raw material for hospital hollowware

[18/10 STAINLESS STEEL] OR

[304 Stainless Steel Sheet]

Chemical Composition: AISI and UNS: Nominal 0.08C max, 2.00 Mn max, 0.045 P max, 0.030S max 1.00 Si max, 8.00 to 10.50 Ni, 18.00 to 20.00 Cr.

Similar Steels (U.S and/or Foreign) UNS S 30400: AMS 5501,5513,5560,5565,5567,5639,5697,ASME SA 182, Sa194 (8) SA 213, SA 240,SA 249, SA 312, SA 320, (B8), ASTM A167, A182, A 193, A 194, A 213, A 240, A 249, A 269, A270,A271,A276,A312,A313, A314, A320, A368, A376, A409, A430, A473, A478, A479, A492, A 493, A 511, A554, A580,A632, A651, A666, A 688, FED QQ-W423, QQ-S-763, QQ-S-766, STD-66; MIL SPEC MIL-F-20138, MIL-S-862, MIL-S-5059, MIL-S-23195, MIL-S-23196, MIL-T-6845, MIL-T-8504, MIL-T-8506, SAE J 405, (30304); (W.GER) DIN 1.4301; (FR.) AFNOR Z6 CN 18.09; (ITAL.) UNI X CRNI 18 10; (Jap) JIS SUS 304; (Swed.) SsR4 2332, 2333; (UK) B.S 304 S 15, 302 S 17, 304 S 16, 304 S 18, 304 S 25, 304 S 40, EN 58 E

Characteristics. Corrosion resistance higher than type 302, non magnetic when annealed . Slightly magnetic when cold worked. Less susceptible to precipitation of carbides during welding.

Forging: start forging at 2100 to 2300 F (1150 to 1260 C) DO not forge below 1700 F (925 C) cool yo black color in less than 3 min, using liquid quench if necessary.

Recommended Heat treating Practice and processing sequence.

Refer to information given for type 201. For Maximum ductility and softness use a minimum annealing temperature of 1900 F (1040C)

Composition chemical in brief description at above		
Property	Type 304%	Type 304L%
Carbon	.08 max	.03 max
Manganese	2.00 max	2.00 max
Phosphorus	.045 max	.045 max

Sulfur	.030 max	.030 max
Silicon	1.00 max	1.00 max
Chromium	18.0-20.0	18.0-20.0
Nickel	8.0-12.0	8.0-12.0