

MATERIAL QUALITY CERTIFICATE

STAINLESS STEEL EN 1.4435

MBV AG delivers stainless steel components to the highest quality standards, especially suitable for the corrosive environments inside isolator applications.

1. Alloy specification	EN 1.4435 (AISI 316L) according to EN 10088-3 X2CrNiMo18-14-3 with δ -Ferrite<0.5% according to BN2
2. Heat treatment	+AT
3. Surface treatment	Electropolishing - Surface layer removal 25 μm (pharmaceutical quality) - Final surface roughness $R_a \leq 0.8 \mu\text{m}$ ⁽¹⁾
4. Components	
Item № New / Previous	Designation
108.070 / 04.4113.01	Stainless steel base for sampling head without perforated lid ⁽²⁾
101.523 / 04.4114.01	Base Easy Clean for perforated lids with bajonett from stainless steel
101.513 / 04.4115.01	Cover for sampling head in stainless steel
04.4903.01	Stainless steel 90° bow ISO DN20/1
130.4035 / 04.4947.01	RapidMicroBio base stainless steel without perforated lid
130.4033 / 04.4948.01	Base EasyClean for perforated lids with bajonett for Growth Direct® cassettes Requires perforated lid BAJ CP EP stainless steel 300x0.6 (ANL)
130.4039 / 04.4949.01	Perforated lid with bajonett and edge protection for Growth Direct® cassettes made of stainless steel, 300 holes with diameter 0.6mm Code: ANL d50 = 1.1 μm at 100 L/min
101.292 / 04.4953.01	Perforated lid with bajonett edge protection made of stainless steel, 300 holes with diameter 0.6mm Code: ANH d50 = 1.1 μm at 100 L/min

101.293 / 04.4954.01	Perforated lid with bajonett and edge protection made of stainless steel, 400 holes with diameter 0.7mm Code: BNH d50 = 1.6um at 100 L/min
130.1794 / 04.4956.01	Perforated lid with bajonett, handle and edge protection made of stainless steel, 300 holes with diameter 0.6mm Code: ANI d50 = 1.1um at 100 L/min
130.4089 / 04.4957.01	Basis EasyClean for robot B from stainless steel
130.4088 / 04.4958.01	Perforated lid for robot A with edge protection made of stainless steel, 300 holes with diameter 0.6mm Code: ANG d50 = 1.1um at 100 L/min
130.3801 / 04.4959.01	Dust cover for robot B from stainless steel
201256	Perforated lid with bajonett and edge protection made of stainless steel, 300 holes with diameter 0.47mm Code: CNH d50 = 1.1um at 50L/min
130.1576	Perforated lid with bajonett and edge protection for Growth Direct® cassettes made of stainless steel, 400 holes with diameter 0.7mm Code: BNL d50 = 1.6um at 100 L/min
5. Material certificates	Every batch of raw material covered by this certificate is procured with a 3.1 certificate according to EN 10204. The material certificates are archived at the manufacturers premisses.

- (1) The surface roughness may be locally higher on surfaces, which are too small to be measured according the usual industry standards.
- (2) This assembly contains small components (springs, screws) of other stainless steel alloys. Operators can switch to the "easy clean" base 101.523 / 04.4114.01 for a solution with all parts made of EN 1.4435