

## Comparison of bimetallic alloy name made by different providers

### A. For Bimetallic Barrel:

Manufacturer	Alloy Model Wear-resistant	Alloy Model Corrosion-resistant	Alloy Model Wear & Corrosion-resistant
XALOY Co., in USA	* X-102	* X-309	X-800
Shanghai Alpha	$\alpha$ 101	$\alpha$ 201	$\alpha$ 301
Japan Steel Works Co., Ltd.	—	N alloy 60 S	N alloy 2000
Kobe Steel Co., Ltd. in Japan	C-105	C-700	C-300
Hitachi Metals Co., in Japan	H-10	H-303	H-70
BERNEX Co., in Switzerland	A 110	C 240	—
REILOY Co., in Italy	Reiloy 112	Reiloy 115	Reiloy 200
EUROVITI Co., in Italy	E 100	E 300 (Co base)	E 800

1. [\* X-102] & [\* X-309 ] separately refer to original alloy model [X-101] and [X-305] in XALOY Co., in USA;
2. There is no standard in the world for the bimetallic products at present, many manufacturer make their production standard according to the relevant standard from XALOY Co., in U.S.A, including their alloy elements and model.

### B. For Bimetallic screw:

1. Normal form of bimetallic screw is that there is an armoured alloy layer on the top of screw thread, its thickness is from 1.0mm to 1.5mm and its hardness is HRC58~60. This alloy has a minimum contact wear ratio when it is running inside of bimetallic barrel.
2. This armoured alloy base material of which is Nickel, named as FX4 in our company, it is similar in composition of NiWC25 made by Stellite Company in USA and better than Colmonoy due to WC inside.

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