



**ToLand Alloy-Specialty Alloy Quality Approved Vendor**

**Low Expansion Nickel-Iron Alloys**

Alloy Name	Trade Name	UNS No.	German Specs	French Specs
Kovar	Alloy K Nilo-K Rodar	UNS K94610	WS 1.3981	AFNOR NF A54-301
Invar 36	Alloy 36 Nilo 36 Super Invar 32-5	UNS K93600 UNS K93601 UNS K93603 UNS K93050	WS 1.3912	
Alloy 42	Nilo 42 Low expansion 42 Alloy Invar42 4J42	UNS K94100	WS 1.3917	DIN 17745 AFNOR NF A54-301
Alloy 45	Low expansion 45 Alloy 4J45			
Alloy 46	Glass sealing 46 Alloy Nilo 46	UNS K94600		
Alloy 48	Nilo 48	UNS K94800		
Alloy 52	Glass sealing 52 Alloy Nilo 52	UNS N14052		
Alloy 475	Nilo 475	UNS K95000		

Overseas Business: [zhanglu@toland-alloy.com](mailto:zhanglu@toland-alloy.com)

