Metal Sensitivity Specifications

General Information¹

- 10 15% of the overall population have a metal allergy
- Metal sensitivity can be either acute or delayed in presentation
- · Implant-related reactions are more commonly delayed reactions
- · Nickel is the most common metal to cause hypersensitive allergenic reactions

1. Hallab N, et al. J Bone Joint Surg Am 2001 Mar;83-A(3):428-36. Schram SE, et al. Nickel hypersensitivity: A clinical review and call to action. International Journal of Dermatology. 2010;49:115.

Metal Discs

Sample metal discs are available for immunologists, dermatologist or allergy specialists who wish to perform a scratch test, intradermal test, or blood test. These discs are only samples of the material, and we suggest sending patients to an allergy specialist.

Composition of Biomet Products

Biomet utilizes metal compositions that are consistent with the ASTM standards for medical device. Biomet utilize cobalt chrome, stainless steel and titanium alloy in various products for thoracic, cranial, and oral maxillofacial procedures.

Cobalt Chrome (ASTM F1537)	Titanium Alloy (ASTM F136)	Stainless Steel (ASTM F899, A564, A276)
Chrome: 26 – 30%	Aluminum: 5.5 – 6.5%	Chromium: 17 – 19%
Molybdenum: 5 – 7%	Vanadium: 3.5 – 4.5%	Nickel: 13 – 15%
Nickel: < 1%	Iron: < 0.25%	Molybdenum: 2.2 – 3%
Silicone: > 1%	0xygen: < 0.13%	Manganese: < 2%
Iron: < 0.75%	Carbon: < 0.08 %	Silicone: < 0.75%
Carbon: < 0.35%	Nitrogen: < 0.05%	Trace amounts less than < 0.5 Carbon, Phosphorus, Sulfur, Copper, Nitrogen
Manganese: < 1%	Hydrogen: < 0.012%	
Nitrogen: < 0.25%	Titanium: Balance	
Cobalt: Balance		

Metal Discs for Testing

- Part No. 24-6690 Cobalt Chrome
- Part No. 24-6692 Titanium Alloy (6/4)
- Part No. 01-3701 Stainless Steel

As the manufacturer of these medical devices, Biomet Microfixation does not practice medicine and does not recommend these products for use on a specific patient. The surgeon who performs any implant procedure must determine the appropriate device and surgical procedure for each individual patient. Devices shown in this flyer may not be cleared or licensed for use or sale in your individual country. Please contact your local distributor for information regarding availability of these products. Information contained in this flyer is intended for surgeon or distributor information only and is not intended for patient distribution. All surgeries carry risks. For additional information, including indications, risks and warnings, please see package insert via our website at www. biometmicrofixation.com or call 1.800.874.7711 or 904.741.4400. Form No. 00-Form21012 • Rev 01205

