### SMART CHROME COBALT - DENTAL ALLOY PRODUCTS

**SMART COBALT - DENTAL ALLOY PRODUCTS - SMART**

**SMART - Chrome Alloy -**

For partial denture restoration

**Composition:**
- Co (66%)
- Cr (28%)
- Mo (6%)
- Other (0.5%)

**SMART - Chrome Alloy - 100**

**Common Use:** For Ceramic restorations

* Smart Chrome complies with the Good Manufacturing Practices of the US FDA.
* Where applicable, individual alloys are further certified to meet NIOM, ADA, or DIN standards.
* Third party certification of our Quality System means that our entire operation has been independently audited to meet international standards.
* The CE mark further confirms that the materials have been determined to be safe and effective for their intended purpose.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>112261</td>
<td>SMART - SMART-100 1kg Chrome Cobalt Molibdeno Ingot 1kg - Be &amp; Ni Free for Ceramic rest...</td>
<td>US$ 131.25</td>
</tr>
<tr>
<td>112262</td>
<td>SMART - Smart-Chrome L 1kg Chrome Cobalt Ingots (Semi Hard) ...</td>
<td>US$ 85.05</td>
</tr>
<tr>
<td>112263</td>
<td>SMART - Smart-Chrome Sh 1kg Chrome Cobalt Shots (Semi Hard) ...</td>
<td>US$ 44.10</td>
</tr>
<tr>
<td>112267</td>
<td>SMART - Smart-Chrome L Ingots 1lb Chrome Cobalt Ingots (Semi Hard) ...</td>
<td>US$ 47.75</td>
</tr>
<tr>
<td>112268</td>
<td>SMART - Smart-Chrome Sh 1lb Chrome Cobalt Shots (Semi Hard) 1lb - ...</td>
<td>US$ 27.30</td>
</tr>
<tr>
<td>113584</td>
<td>SMART - Smart-L-Chrome 1kg Chrome Cobalt Rods 3 feet or 5 feet long - (Semi Hard) M...</td>
<td>US$ 59.65</td>
</tr>
</tbody>
</table>

### CHROME COBALT CR-CO SUPER-6 - DENTAL ALLOY

**CHROME COBALT CR-CO - SUPER 6 - DENTAL ALLOY**

* Dental Alloy Products complies with the Good Manufacturing Practices of the US FDA.
* Where applicable, individual alloys are further certified to meet NIOM, ADA, or DIN standards.
* Third party certification of our Quality System means that our entire operation has been independently audited to meet international standards.
* The CE mark further confirms that the materials have been determined to be safe and effective for their intended purpose.

**SUPER - 6 Ingots**
**SUPER - 6 Shots**

**SUPER-6 CR-CO Shots**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>103912</td>
<td>DENTALALLOY - Super-6 Chrome Cobalt Shots (Semi Hard) 10oz - ...</td>
<td>US$ 19.43</td>
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<tr>
<td>103841</td>
<td>DENTALALLOY - Super-6 Chrome Cobalt Shots (Semi Hard) 1Kg - ...</td>
<td>US$ 44.10</td>
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### Super-6 Ingots

<table>
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</thead>
<tbody>
<tr>
<td>103913</td>
<td>DENTALALLOY - Super-6 Chrome Cobalt Ingot (Semi Hard) 1 lb (15oz)</td>
<td>US$ 49.35</td>
</tr>
<tr>
<td>103842</td>
<td>DENTALALLOY - Super-6 Chrome Cobalt Ingot (Semi Hard) 1Kg</td>
<td>US$ 85.05</td>
</tr>
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</table>

### Super 100

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
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<tbody>
<tr>
<td>103911</td>
<td>DENTALALLOY - Super-100 Chrome Cobalt Molibdeno Ingot 10oz - Be &amp; Ni Free for Ceramic restoration</td>
<td>US$ 39.90</td>
</tr>
<tr>
<td>103836</td>
<td>DENTALALLOY - Super-100 Chrome Cobalt Molibdeno Ingot 1kg</td>
<td>US$ 123.90</td>
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### Smart 100

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>113478</td>
<td>DENTALALLOY - SMART-100 Chrome Cobalt Molibdeno Ingot 1oz - Be &amp; Ni Free for Ceramic restoration</td>
<td>US$ 4.49</td>
</tr>
</tbody>
</table>

### Wironit Chrome Cobalt CR-Co - BEGO

The classical partial denture alloy for clasp prosthesis.

Wironit LA universally applicable for clasp partial dentures and combination work

* Excellent laser welding properties for high-strength joints, even in extreme situations
* Outstanding physical and chemical properties with finegrained tantalum for a homogeneous structure
* With certificate regarding additional biological material tests at independent institutes

Wironit Extra Hard is great for lower cases and milled work where more strength is needed.

**Specifications:**

* Quality Speaks for Itself
Alloys

Chrome Cobalt

*Excellent Laser Welding Properties
* Easy to Process
* Co 63,5
* Cr 29
* Mo 5

US DENTAL DEPOT Inc is an Authorized BEGO Dealer in the US.

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>010-50060</td>
<td>BEGO - BEGO - Wironit-Co-Cr X-hard Alloy - 1Kg ( B# 50060 ) Chrome Cobalt alloy Co/C...</td>
<td>US$ 273.00</td>
<td>Info</td>
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<tr>
<td>010-50030</td>
<td>BEGO - BEGO - Wironit-Co-Cr-Alloy - 1kg ( B# 50030 ) Chrome Cobalt alloy Co/Cr Bego ...</td>
<td>US$ 249.90</td>
<td>Info</td>
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</table>

Gold color Alloys

SMART GOLD COLOR ALLOY - ECCO

Comparable formula to and can replace NPG from Albadent
Is a non-precious "type III" casting alloy for use in the construction of crowns, bridges, inlays and onlays. Although a non-noble alloy, possesses the appearance and handling characteristics of a yellow-gold alloy at a relatively cheaper price

FORMULA
Cu: 80.9 %
Al: 7.8 %
Ni: 4.3 %
Fe: 3%
Zn: 2.7%
Mg: 1.7%

Physical Qualities

Vickers Hardness: 140
Casting Temp: 1148 C (2100F) Premium non Precious TYPE 3 casting alloy for Crowns and bridges, inlays and onlays.

NPG is a trade mark of Aalbadent Company

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
<th>+</th>
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<tbody>
<tr>
<td>103905</td>
<td>ECCO - SMART-Gold Color Alloy Npg formula 10oz -( ex- ECCO - gold ) *comparable to NPG...</td>
<td>US$ 73.50</td>
<td>Info</td>
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<tr>
<td>101892</td>
<td>ECCO - SMART-Gold Color Alloy Npg formula 1lb ( 15 oz ) -( 3 x 5 oz ealed bags = 15 oz...</td>
<td>US$ 115.50</td>
<td>Info</td>
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<tr>
<td>101292</td>
<td>ECCO - SMART-Gold Color Alloy Npg formula 1Kg -( ex- ECCO - gold ) *comparable to NPG-...</td>
<td>US$ 229.60</td>
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Nickel Chrome Berilium

EXACTOBOND CERAMIC ALLOY NICKEL CHROME Ni-Cr-Be
NICKEL CHROME DENTAL ALLOY Ni-Cr Be - EXACTO

Alloy Name EXACTO-BOND ALLOY NON-PRECIOUS ALLOYS
CTE of 14,1 to 14,5 , is compatible with almost all porcelains in the market - Ceramco - Ceramco 2- Noritake - Ceratec -
Vision.

Color: WHITE  Type: PFM Application

EXACTO-BOND ALLOY is designed for porcelain powders. Due to its CTE and containing Berilium, makes it also full compatible with the most used porcelains in the market

EXACTO-BOND ALLOY

EXACTO-BOND : in % of the weight:
Ni-(78.9)
Cr-(12),
Mo-(4.6%),
Al-(2.6%),
Be-(1.8%)

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<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>102209</td>
<td>EXACTO - ExactoBond Ni Cr with Berilium 1lb</td>
<td>$58.80</td>
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<tr>
<td>1010001</td>
<td>EXACTO - ExactoBond Ni Cr with Berilium 1Kg</td>
<td>$94.50</td>
</tr>
<tr>
<td>122499</td>
<td>EXACTO - ExactoBond-3 Ni Cr with Berilium 1Kg - Same formulation as VERABOND AALBADFENT -...</td>
<td>$115.50</td>
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</table>

SUPER-1 NICKEL CHROME ALLOY Ni-Cr-Be - DENTAL ALLOY PRODUCTS

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>102202</td>
<td>DENTALALLOY - SUPER-1 Ni Cr Be Ingot 1lb</td>
<td>$65.10</td>
</tr>
<tr>
<td>100504</td>
<td>DENTALALLOY - SUPER-1 Ni Cr Be Ingot 1kg</td>
<td>$102.90</td>
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</tbody>
</table>

CERAMIC ALLOY NICKEL CHROME Ni-Cr-Be - CERAKAST

CERAMIC ALLOY NICKEL CHROME Ni-Cr-Be - CERAKAST

Alloy Name CERAKAST 1  NON-PRECIOUS ALLOYS
CTE of 14.1 to 14.5 , is compatible with almost all porcelains in the market - Ceramco - Ceramco 2- Noritake - Ceratec - Vision.

Color: WHITE

Type: PFM Application

CERAKAST 1 been specially designed for Ceratec porcelain powders. Due to its CTE and containing Berilium, makes it also full compatible with the most used porcelains in the market

Common Use: For metal-ceramic restoration
Is compatible with almost all porcelains in the market - Ceramco- Ceramco 2- Noritake- Ceratec - Vision

Formula CERAKAST 1 :
in % of the weight :
Ni-(78.95%)
Cr-(12%)
Mo-(4.6%)
Al-(2.6%)
Be-(1.8%)
CERAMIC ALLOY NICKEL CHROME Ni-Cr-Be - REXILIUM III

Alloy Name NICKEL CHROME Ni-Cr Be
NICKEL CHROME REXILIUM ALLOY is designed for porcelain powders. Due to its CTE and containing Berilium, makes it also full compatible with the most used porcelains in the market

Features:
CTE of 14.1 to 14.5, is compatible with almost all porcelains in the market
* Ceramco
* Ceramco 2
* Noritake
* Ceratec
* Vision

For more info check our website www.usdentaldepot.com

SMART BOND CERAMIC ALLOY NICKEL CHROME Ni-Cr-Be - SMART

Alloy Name Smart Bond NON-PRECIOUS ALLOYS

CTE of 14.1 to 14.5, is compatible with almost all porcelains in the market - Ceramco - Ceramco 2 - Noritake - Ceratec - Vision.

Color: White

Type: PFM

SMART 1 is the most recognized non-precious alloy in the world, and continues to be the top-seller at Dental Alloy Products. This amazing alloy has been in the marketplace for over 40 years. SMART BOND has a superb clinical history and works perfectly as a high-strength, economical alloy. Its advanced metallurgical properties, including a light oxide, ensure consistent, faithful wax reproduction with sharp margins.

Modeling
Maintain a minimum wax thickness of 0.3 to 0.4 mm. The wax pattern design should have lingual collars and no sharp corners. Lingual eyelet rings help support castings during firing.

Oxydizing or Degassing: 650-980°C, Hold 0 min with Vacuum, Do not remove oxide.

Melting Range C: 1160-1280
Casting Temp C: 1370
Expansion at 500°C: 14.5
Expansion at 600°C: 14.7
Alloys
Nickel Chrome Berilium

Burnout Temp C: 870

Please scroll below for more Instructions and Technical Specifications

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>114189</td>
<td>SMART-BOND II Nickel Chrome Non Berilium (Free) 1oz - FOR CERAMCO PORCELAIN</td>
<td>US$ 4.41</td>
</tr>
<tr>
<td>112264</td>
<td>SMART-BOND Nickel Chrome Berilium for ceramics/porcelains 1lb - FOR CERAMCO PORCELAIN</td>
<td>US$ 47.65</td>
</tr>
<tr>
<td>112259</td>
<td>SMART-BOND II Nickel Chrome Non Berilium (Free) 1Kg - FOR CERAMCO PORCELAIN</td>
<td>US$ 111.17</td>
</tr>
</tbody>
</table>

SMART-5 VITA CERAMIC ALLOY NICKEL CHROME Ni-Cr-Be- ARGEN

NICKEL CHROME DENTAL ALLOY Ni-Cr Be
SPECIAL FOR VITA PORCELAINS
DENTALALLOYS

SMART V
With a CTE of 14.1 to 14.5, is compatible with almost all porcelains in the market - Ceramco - Ceramco 2 - Noritake - Ceratec - Vision.
Is the most recognized non-precious alloy in the world, and continues to be the top-seller at Dental Alloy Products.
Has a superb clinical history and works perfectly as a high-strength, economical alloy. Its advanced metallurgical properties, including a light oxide, ensure consistent, faithful wax reproduction with sharp margins.

Super 14
With a CTE 13.6 to 14.0, is compatible with VITA porcelains

Formula:

**Super 1**: in % of the weight:
* Ni (77%)
* Cr (14%)
* Mo (4.7%)
* Al (2%)
* Be (1.8%)

**Super 14**: in % of the weight:
* Ni (72%)
* Cr (15%)
* Mo (9%)
* Al (2%)
* Be (1.8%)

Instructions for Use:
1. **Modeling**: Maintain a minimum wax thickness of 0.3 to 0.4 mm. The wax pattern design should have lingual collars and no sharp corners. Lingual eyelet rings help support castings during firing.

2. **Spruing (Single Crowns)**: Use direct sprues, 8-10 gauge, (3.3-2.6 mm diameter) and 1/2 in. (12 mm) long with adequate reservoirs. There should be no more than 1/4 in. (6 mm) of investment from the top of the pattern to the top of the investment.

3. **Induction or Electrical Casting**: When using induction casting machine, pre-heat the crucible. Set the arm speed to 400-450 rpm & set the power to high and be sure that the alloy is pulsating and slumping. The casting temperature of automatic casting equipment should be set for 2500 F (1370 C) with a five seconds heat soak.

4. **Cooling**: Allow casting ring to cool to room temperature. DO NOT quench in water.

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**SMART-5 VITA CERAMIC ALLOY**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>113476</td>
<td>SMART - SMART-5 Ni Cr with BERILIO 1oz - For Vita Porcelain and Ivoclar ceramics - FOR ...</td>
<td>US$ 4.44</td>
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</table>

**SUPER-14 VITA CERAMIC ALLOY**

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>100617</td>
<td>DENTALALLOY - SUPER-14 VITA Ni Cr with Berilio 1Kg - FOR VITA PORCELAIN - ...</td>
<td>US$ 115.76</td>
</tr>
</tbody>
</table>

**SMART-7 NORITAKE CERAMIC ALLOY**

**NICKEL CHROME Ni-Cr-Be- ARGE**

**SMART-7 NIQUEL CHROME - BERILUM**

**SPECIAL FOR NORITAKE PORCELAINS**

**Instructions For Use:**

**SPRUING (SINGLE CROWNS)** - Use direct sprues, 8-10 gauge, (3.3-2.6 mm diameter) and 1/2 in. (12 mm) long with adequate reservoirs. There should be no more than 1/4 in. (6 mm) of investment from the top of the pattern to the top of the investment.

**MODELING** - Maintain a minimum wax thickness of 0.3 to 0.4 mm. The wax pattern design should have lingual collars and no sharp corners. Lingual eyelet rings help support castings during firing.

**INDUCTION** or Electrical Casting - When using induction casting machine, pre-heat the crucible. Set the arm speed to 400-450 rpm & set the power to high and be sure that the alloy is pulsating and slumping. The casting temperature of automatic casting equipment should be set for 2500 F (1370 C) with a five seconds heat soak.

**COOLING** - Allow casting ring to cool to room temperature. DO NOT quench in water.

**Size**: 1 oz - (1 Kg minimum order)

---

**FREE SHIPPING FOR ALL DOMESTIC ACCOUNTS!**
**BEGO-50225 Wiron 99 - Ni-Cr n/Be 1 kg**  
US$ 567.00

**BEGO - Wiron 99 - 1kg**  
Chrome Cobalt  
# 010-50225 - Mfg # 50225

**Descriptions:**
* Non-precious alloy for metal-to-ceramic work or acrylic veneering  
* Extremely high resistance to corrosion  
* Biocompatibility certified  
* Low thermal conductivity.  
* High modulus of elasticity.  
* Great strength for long span bridges  
* Easy finishing thanks to low hardness of 180.  
* Long cooling time not required: low coefficient of expansion.  
* Reliable metal-to-ceramic bond.High bonding strength to ceramics  
* High heat resistance: dimensional stability during firing and soldering.

**Composition in % by weight:**
Ni 65, Cr 22.5, Mo 9.5, Nb, Si, Fe, Ce each

**Alloy characteristics:**
* Color: Silver  
* Density: 8.2 g/cm³  
* Casting temperature: 1310 - 1250 °C  
* Casting temperature: approx. 1420 °C  
* Coefficient of expansion at 600°C: 14.0 x 10⁻⁶K⁻¹  
* Coefficient of expansion at 500°C: 13.8 x 10⁻⁶K⁻¹  
* Ductility yield (A5): 25 %  
* Ductility limit (Rp 0,2): 330 [MPa]  
* Thermal contraction solidus to room temperature: approx. 2.2 %  
* Modulus of elasticity: approx. 205 [GPa]  
* Vickers hardness (HV 10) after casting/firing: 180

US DENTAL DEPOT is an Authorized BEGO dealer in US.

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**EXACTOBOND CERAMIC ALLOY NICKEL CHROME Ni-Cr-Be FR EE**

**EXACTOBOND CERAMIC ALLOY NICKEL CHROME Ni-Cr-Be FREE**

**Features:**
Formulated Berilium Free. Common Use: For metal-ceramic restorations Its advanced metallurgical properties, including a light oxide, ensure consistent, faithful wax reproduction with sharp margins.

**Physical Properties:**
* Composition Weight %  
* Metal: Ni(54)Cr(22)Mo(9 Fe (4) Ta (4)  
* Expansion at 500°C: 14.1  
* Crucible: Quartz or Zircon  
* Expansion at 600°C: 14.5

For more info check our website www.usdentaldepot.com

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<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>103920</td>
<td>EXACTO - EXACTOBOND II Ni Cr Non Berilio 10oz Nickel Chrome Berilium Free - FOR CERA...</td>
<td>US$ 39.90</td>
</tr>
</tbody>
</table>
Alloys
Nickel Chrome NON Berilium

SUPER 3 NICKEL CHROME Ni-Cr-Be Free - DENTAL ALLOY PRO DUCTS

NICKEL CHROME DENTAL ALLOY SUPER 3 Ni-Cr-Be Free - DENTAL ALLOY

Formulated Berilium Free.

Common Use: For metal-ceramic restorations

Its advanced metallurgical properties, including a light oxide, ensure consistent, faithful wax reproduction with sharp margins.

Composition Weight

* Ni (54%)
* Cr (22%)
* Mo (9%)
* Fe (4%)
* Ta (4%)

Physical Properties:

* Expansion at 500°C: 14.1
* Crucible: Quartz or Zircon
* Expansion at 600°C: 14.5

CR CO NON BE - CERAKAST

CR CO NON BE - CERAKAST

Specification:

* Ni -54%
* Cr -22%
* Mo - 9%
* Fe - 4 %
* Nb - 4%
* Ta - 4%

Melting Range: 2230-2245 F - 1220-1230 C

Casting Temperature: 2500 F - 1370 C

Coefficient of Linear Thermal Expansion: CTE: 25-500 To 25-600 14.1 To 14.4

Oxidation - 1000 C - 1 minute with or without vacuum.
### DENTAL ALLOY - 114352 SUPER-11 Ni Cr Mo Be FREE 1oz

**DENTAL ALLOY - SUPER-11 VITA NiCr**  
Nickel Chrome NON Berilium  
# 114352

**Features:**  
- Non berilium & with molybdenum 1oz - for vita porcelain and ivoclar ips design - (Berilium Free)  
- Phosphate Bonded Nickel Chrome NiCrMo Porcelain to metal alloy.

**Size:** 1oz  
**Price:** US$ 4.10

---

### TECH STAR ALLOY - ADS

**ADS - TECH STAR ALLOY**

**Feature:**  
- Tech Star is a predominantly base white ceramic alloy with excellent properties and handling characteristics.  
- It exhibits excellent casting, finishing and polishing properties.  
- Tech Star contains: 78.2% Ni, 13% CR, 5% Mo, and 1.8% Be.

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<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Price</th>
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<tbody>
<tr>
<td>118415</td>
<td>ADS - ADS- Tech Star Alloy 5 oz. - # T 986-6</td>
<td>US$ 55.56</td>
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<td>118414</td>
<td>ADS- ADS- Tech Star Alloy 1 oz. - # 310103</td>
<td>US$ 13.34</td>
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<tr>
<td>Chrome Cobalt</td>
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<tr>
<td>Gold color Alloys</td>
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<tr>
<td>Nickel Chrome Berilium</td>
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<tr>
<td>Nickel Chrome NON Berilium</td>
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