

## Materials used for the manufacture of SERF hip implant

Implant name	Material	Material ISO code	Coating
EVL screws	Titanium TA V	ISO 5832-3	-
Novae* Coptos TH cup	Stainless steel M25	ISO 5832-1	Ti (ASTM F 1580) + HAP (ISO 13779-2)
Novae* E TH cup	Stainless steel M25	ISO 5832-1	Ti (ASTM F 1580) + HAP (ISO 13779-2)
Novae* Stick cup	Stainless steel M25	ISO 5832-1	-
Novae* SunFit TH cup	Stainless steel M25	ISO 5832-1	Ti (ASTM F 1580) + HAP (ISO 13779-2)
CIE liner	UHMWPE	ISO 5834-2	-

**ISO 5832-1** : 2007 "Implants for surgery - Metallic materials - Part 1: Wrought stainless steel"

Carbone	C	0,030 % max.
Silicium	Si	1,0 % max.
Manganèse	Mn	2,0 % max.
Phosphore	P	0,025 % max.
Soufre	S	0,010 % max.
Azote	N	0,10 % max.
Chrome	Cr	17,0 à 19,0 %
Molybdène	Mo	2,25 à 3,0 %
Nickel	Ni	13,0 à 15,0 %
Cuivre	Cu	0,50 % max
Fer	Fe	Complément

**ISO 5832-3** : 1996 "Implants for surgery - Metallic materials - Part 3: Wrought titanium 6-aluminium 4-vanadium alloy"

Aluminium	Al	5,5 à 6,75 %
Vanadium	V	3,5 à 4,5 %
Fer	Fe	0,3 % max.
Oxygène	O	0,2 % max.
Carbone	C	0,08 % max.
Azote	N	0,05 % max.
Hydrogène	H	0,015 % max.
Titane	Ti	Le reste

**ISO 5834-2** : 2011 "Implants for surgery - Ultra-high-molecular-weight polyethylene - Part 2: Moulded forms"

Density	927 à 944 kg/m <sup>3</sup>
Ash	150 mg/kg max.

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