

Test Report-Nr.2025-01/1139

Subject: **Material analysis on Viball® 40 mm hollow
sphere with the batch no.: VB4025 2005**

Client: **Theros
Schulte Westenberg & Poetter
Frau-Holle-Weg 12
DE - 49479 Ibbenbüren**

Bruchhausen Vilsen 27.05.2025

(01 Initial sample / 02 Complaint / 03 Inspection)

Appendix 1

Testing the chemical composition of a Viball® -40 mm hollow sphere/ Batch No.: VB4025 2005

1. Results of spark spectrometry

**Hollow sphere-40 mm
Batch no.: VB4025 2005**

**Comparable with X2CrNiMo17-12-2
according to standard
Material no. 1.4404 (AISI 316L)**

Determined values

Element

C 0,0293 %

Si 0,498 %

Mn 1,35 %

P 0,0010 %

S 0,0011 %

Cr 16,82 %

Mo 2,05 %

Ni 10,04 %

Element

C ≤ 0,03 %

Si ≤ 1,00 %

Mn ≤ 2,00 %

P ≤ 0,036 %

S ≤ 0,015 %

Cr 16,50-18,50 %

Mon 2,00-2,50 %

Ni 10,00-13,00 %

2. Remark:

This material is an alloyed stainless steel, which is often used for devices and implants in human medicine.