

Revision History

Rev	Description of Changes	Release Date
A	CO#19216: Initial Release	2019-12-03

1. Scope

This material composition document covers 17-4PH Stainless Steel ferrous metal used for metal injection molded (MIM) devices fabricated at World Class Technology.

2. Materials Composition

MIM-17-PH, precipitation hardening Stainless Steel per ASTM B883-19

3. Chemical Composition

The material meets the chemical composition requirements specified in Table 1.

TABLE 1

Chemical Name	Min. (weight %)	Max. (weight %)
Iron (Fe)	Balance	Balance
Nickel (Ni)	3	5
Chromium (Cr)	15.5	17.5
Carbon (C)	-	0.07
Copper (Cu)	3	5
Silicon (Si)	-	1.0
Manganese (Mn)	-	1.0
Niobium; tantalum (Nb+Ta)	0.15	0.45
Other	-	1.0

4. Limitations

WCT devices using 17-4 PH Stainless Steel material are for Professional Use Only by a dental professional in the recommended indications.