

RapidHeat™ Sterilizer Instrument and Material Compatibility – 9/1/2019

Laboratory Tested Instrumentation

1) Instruments & Material Compatible with RapidHeat Sterilization:

Surgical Instruments (400 & 300 Series Medical Grade Stainless Steel)
Metallic Explorers, Probes, Pliers, Scalars, Curettes, Elevators, Retractors, Forceps
Dental Air-Driven & Electric Handpieces, Prophylaxis & Contra-Angle Handpieces
Burs (Stainless Steel & Tungsten-Carbide)
Stones (Diamond & Polishing)
Endodontic Instruments (reamers, files, broaches)
Metal Impression Trays (Aluminum & Metal Chrome Plated)
Electrosurgery Tips, Metal Implants, Dappen Dishes, Glass Slabs
Silicone Rubber polishing wheels/disks/dam clamps, punches, frames
Titanium, and Anodized Aluminum Surgical & Diagnostic Instruments
Endo files, reamers, broaches with high-temp resistant resin handles
Ultrasonic Cavitron Inserts (Dentsply & Hu-Friedy)
High Temperature Plier Grips

2) Non-Compatible Instruments/Material:

Plastic (polypropylene resin) X-Ray Film Holders
Ortho Band Removers w/plastic inserts
Amalgam Pluggers w/plastic tips
PVC Plastic & Natural Rubber Tubing
Plastic Disposable Trays & Mirrors

Compatible Metallic Materials typically used in Medical Instrumentation

Carbon Steel
Stainless Steels (and all SS Alloys)
Nickel, Copper, Titanium
Aluminum (Including Chromium Coated and Hard Anodized)

Compatible Plastics and Synthetic Rubber

VMQ – Elastomer (Silicone)
FKM- Elastomer (Viton)
TFE/P – Elastomer (Aflas)
FEP – Fluorinated ethylene propylene (Teflon/Dyneon)
PAI – Polyamide-imide (Torlon, Tecator, Duratron, Dupon Vespel)
PEEK – Polyetheretherketone (Tecapeek, Sustapeek, Ketron)
PFA – Perfluoroalkoxy fluoropolymer (NeoFlon)
PPSU – Polyphenylsulfone (Radel-R)
PTFE – Polytetrafluoroethylene (Teflon/Rulon, Fluorosint)
LCP – Liquid Crystal Polymer
PC – PolyCarbonate (PBT Blend – Glass Filled only)
PI – Polyimide
PPS – Polyphenylone Sulfide

Non-Compatible Plastics and Rubber

Natural Rubber, PUR, Neoprene, Nitrile, PE, HDPE, Acrylic, ABS, PPE, PVC, PC, PET

NOTE:

RapidHeat Sterilization users are advised to first consult with instrument manufacturer's IFU to determine if "dry heat" applications have been tested and validated. If not, sterilization of questionable instruments should not be undertaken without independent study and evaluation for suitability