

HAVAR[®] Biocompatibility Test Data

Samples from heat 304360, coil 1034 at 0.012" thick in 73% CR temper
275,000 psi ultimate strength, 235,000 psi yield strength, 2% elongation

Test	Procedure	Compliance	Result Summary
Cytotoxicity	MEM Extract	USP 24, NF 19, 2000 ISO 10993-5	No signs of reactivity; Non-cytotoxic
Systemic Toxicity	Four Extracts	USP 24, NF 19, 2000 ISO 10993-11	No signs of toxicity
Intracutaneous Irritation	Four Extracts	USP 24, NF 19, 2000 ISO 10993-10	No signs of erythema, edema or necrosis; Primary Irritation Index = 0.0
Intramuscular Implantation	2 Weeks/3 Rabbits with Histopathology	USP 24, NF 19, 2000 ISO 10993-6	All implant sites appeared normal indicating non-toxicity
Sensitization	One Extract	ISO 10993-10	No signs of erythema or edema; 0% Sensitization
Hemolysis Human Blood Study	Indirect Contact	ISO 10993-4	Non-hemolytic
Pyrogenicity	Material Mediated in Rabbits	ISO 10993-11	No signs of pyrogenic response

note: testing conducted and reported by
Toxikon Corporation, 15 Wiggins Avenue, Bedford, MA
on behalf of Hamilton Precision Metals