



Thermal Performance






ISOSTEEL® Thermal Performance

ISOSTEEL mugs and bottles have been tested by independent technical test laboratories (PZT Wilhelmshaven/Germany) regarding their thermal performance.



ISOSTEEL® Thermal Performance

ISOSTEEL mugs have been tested by independent technical test laboratories (CMA Testing and Certification Laboratories, Hong Kong) and by suppliers regarding their thermal performance.

	VA-9557 (14 oz - 0.4l)		VA-9558 (14 oz - 0.4l)			VA-9581Q (14 oz - 0.4l)			VA-9717 (12 oz - 0.35l)		VA-9718 (17 oz - 0.5l)
											
Start temperature	205°F 96°C		203°F 95°C			203°F 95°C			203°F 95°C		203°F 95°C
Hot water after 1 h	158°F 70°C		151°F 66°C			176°F 80°C			194°F 90°C		198°F 92°C
Hot water after 2 h	131°F 55°C		120°F 49°C			149°F 65°C			185°F 85°C		189°F 87°C
Hot water after 3 h	115°F 46°C		108°F 42°C			—			174°F 79°C		180°F 82°C

Temperature check without opening in between

ISOSTEEL® Thermal Performance

ISOSTEEL bottles have been tested by independent technical test laboratories (PZT Wilhelmshaven/Germany) regarding their thermal performance.

VA-9556Q (25 oz - 0.75l) VA-9552Q (25 oz - 0.75l) VA-9554Q (30 oz - 0.9l) VA-9553Q (34 oz - 1.0l) VA-9562DQ (34 oz - 1.0l) VA-9560WQ (51 oz - 1.5l) X-Line VA-9810P (34 oz 1.0l)



Hot water after 6 h 203°F/95°C Room temp. 72°F/22°C	183,4°F 84,1°C	179,4°F 81,9°C	184,1°F 84,5°C	185,4°F 85,2°C	185,9°F 85,5°C	180,0°F 82,2°C	188,2°F 86,8°C
Hot water after 24 h 203°F/95°C Room temp. 72°F/22°C	144,5°F 62,5°C	139,1°F 59,5°C	145,6°F 63,1°C	151,2°F 66,2°C	154,2°F 67,9°C	143,1°F 61,7°C	149,9°F 65,5°C
Cold water after 6 h 41°F/5°C Room temp. 140°F/60°C	50,4°F 10,2°C	51,4°F 10,8°C	50,5°F 10,3°C	48,6°F 9,2°C	49,5°F 9,7°C	50,0°F 10,0°C	49,6°F 9,8°C

Temperature check without opening in between
Tested by German technical test laboratory PZT, Wilhelmshaven