

 TARSONS PRODUCTS LTD.	QUALITY WORK INSTRUCTION	QWI-QC-18/01
	Performance Test for Freezing Containers	Issuance date: <u>21.08.2021</u>
		Effective date: <u>20.09.2021</u>
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Products: Mini Coolers / Freezing Container.

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Sample Size: One piece / Lot.

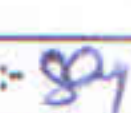
Test Equipment: Temperature Sensing Probe and Freezer.

Test Procedure:

1. Keep the item in a – 30°C Freezer for 24 Hrs with attached Temp sensing probe in different wells.
2. Transfer the item to a controlled room (temperature 19°C ± 0.2°C) to record temperature of each well per minute.
3. Prepare the performance graph by plotting mean temperature against time.

Specification:

CODE NO	Description	Places	Capacity (ml)	Temperature Specification
525010	0°C Mini Cooler	12	1.5	Maintain temp bellow 1°C for 200 mins
525020	0°C Mini Cooler	12	15	Maintain temp bellow 1°C for 200 mins
525030	-20°C Mini Cooler	12	1.5	Maintain temp bellow 1°C for 200 mins
525040	Quick Freeze	12	1.5	Take 3.11 min to reach 0°C using water as sample in a 1.5 ml Micro centrifuge tube
525050	0°C Mini Cooler with Gel Filled Cover	32	1.5	Maintain temp bellow 1°C for 300 mins
525060	-20°C Mini Cooler with Gel Filled Cover	32	1.5	Maintain temp bellow 1°C for 220 mins and bellow -15°C for 60 mins.
526030	-20°C Mini Cooler	32	1.5	Maintain temp bellow 1°C for 200 mins
525000	Cryo 1°C Cooler	18	1 or 1.8 ml	This cooler gives -1°C/min cooling rate. The cooler needs 100% Isopropyl Alcohol and mechanical freezer.

PREPARED BY :-  12-08-21	REVIEWED BY :-  20-08-2021	APPROVED AND ISSUED BY :-  21.08.2021
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