

Freezer Wear - Duration vs Temperature

Resultant effective thermal insulation of clothing I_{cler} and ambient temperature conditions for heat balance at different activity levels and durations of exposure.

Insulation (I_{cler} m ² .K/W)	Wearer Standing				Wearer Moving (Light 115 W/m ²)				Wearer Moving (Medium 170 W/m ²)			
	Air Velocity											
	0.0 m/s		3.0 m/s		0.4 m/s		3.0 m/s		0.4 m/s		3.0 m/s	
	8 hrs	1 hr	8 hrs	1 hr	8 hrs	1 hr	8 hrs	1 hr	8 hrs	1 hr	8 hrs	1 hr
0.390	5	-12	13	-3	-9	-28	0	-16	-29	-49	-16	-33
0.470	0	-20	7	-9	-17	-38	-6	-24	-40	-60	-24	-43

Note:

Performance of clothing ensemble or garment in terms of preserving heat balance at normal body temperature depends on internal body heat production. Therefore the protection level of a clothing ensemble or garment is evaluated by comparing its measured insulation value and the calculated required insulation value.



0.434(B) I_{cler} (m².K/W)

3
X

The garment...

1) Meets Resistance to Water Penetration requirements for EN342 Clause 4.4, but does not meet Water Vapour Permeability index for EN342 Clause 4.5.

2) Is otherwise compliant with the standard when worn as an ensemble with JB's Freezer Pant with Tape, 6DFP.