

## 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 <sup>2</sup> .K/W)	Wearer Standing				Wearer Moving (Light 115 W/m <sup>2</sup> )				Wearer Moving (Medium 170 W/m <sup>2</sup> )			
	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.



0.410(B)  $I_{cler}$  (m<sup>2</sup>.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 Hi Vis (D+N) Freezer Jacket, 6DFJ.