

INSULATION VALUES

HB
PROTECTIVE
WEAR



INSULATION VALUES COLD PROTECTION

This table shows the performance levels of our TEMPEX® cold protective wear. It shows the duration of use for the relevant clothing in relation to temperature and physical strain. The performance levels are light duty (more static works) and medium duty (works where you move more). The specified values are achieved only if jacket and trousers of the same material construction are worn.



	Part Number	Part	Insulation value / m ² ·K/W cler R-value	Standing activity 75 W/m ²				Activity with low movement 115 W/m ²				Activity with regular movement 170 W/m ²			
				Air speeds				Air speeds				Air speeds			
				0,4 m/s		3 m/s		0,4 m/s		3 m/s		0,4 m/s		3 m/s	
				8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h
CLASSIC 2.0	01174 1K014 000	Jacket order picker	0,428 (B) AP 2 x	3°C -16°C	10°C -6°C	-13°C 33°C	-3°C -20°C	-34°C -49°C	-20°C -38°C						
	01174 2K012 000	Trousers order picker	0,428 (B) AP 2 x	3°C -16°C	10°C -6°C	-13°C 33°C	-3°C -20°C	-34°C -49°C	-20°C -38°C						
	01174 1K037 000	Ladies' jacket order picker	0,428 (B) AP 2 x	3°C -16°C	10°C -6°C	-13°C 33°C	-3°C -20°C	-34°C -49°C	-20°C -38°C						
	01174 2K017 000	Ladies' trousers order picker	0,428 (B) AP 2 x	3°C -16°C	10°C -6°C	-13°C 33°C	-3°C -20°C	-34°C -49°C	-20°C -38°C						
CLASSIC	09044 1K048 000	Jacket	0,339 (B) AP 2 x	8°C -10°C	16°C 1°C	-5°C -22°C	4°C -11°C	-22°C -41°C	-10° -26°C						
	09044 2K024 000	Trousers	0,339 (B) AP 2 x	8°C -10°C	16°C 1°C	-5°C -22°C	4°C -11°C	-22°C -41°C	-10° -26°C						
	09044 1K049 000	Ladies' jacket	0,339 (B) AP 2 x	8°C -10°C	16°C 1°C	-5°C -22°C	4°C -11°C	-22°C -41°C	-10° -26°C						
	09044 2K001 002	Ladies' trousers	0,339 (B) AP 2 x	8°C -10°C	16°C 1°C	-5°C -22°C	4°C -11°C	-22°C -41°C	-10° -26°C						
	09028 1K009 000	Jacket order picker with acrylic fur lining	0,344 (B) AP 2 x	8°C -7°C	15°C 1°C	-5°C -22°C	3°C -11°C	-23°C -42°C	-11°C -27°C						
	09028 2K006 000	Trousers order picker with acrylic fur lining	0,344 (B) AP 2 x	8°C -7°C	15°C 1°C	-5°C -22°C	3°C -11°C	-23°C -42°C	-11°C -27°C						
	09045 1K000 000	Jacket order picker	0,448 (B) AP 2 x	1°C -18°C	9°C -7°C	-15°C -35°C	-4°C -22°C	-37°C -49°C	-22°C -40°C						
	09045 2K000 000	Trousers order picker	0,448 (B) AP 2 x	1°C -18°C	9°C -7°C	-15°C -35°C	-4°C -22°C	-37°C -49°C	-22°C -40°C						
	09045 1K001 000	Ladies' jacket order picker	0,448 (B) AP 2 x	1°C -18°C	9°C -7°C	-15°C -35°C	-4°C -22°C	-37°C -49°C	-22°C -40°C						
	09045 2K001 000	Ladies' trousers order picker	0,448 (B) AP 2 x	1°C -18°C	9°C -7°C	-15°C -35°C	-4°C -22°C	-37°C -49°C	-22°C -40°C						
	09045 3K000 000	Coverall order picker	0,411 (B) AP 2 x	4°C -14°C	11°C -5°C	-11°C -31°C	-2°C -18°C	-32°C -49°C	-18°C -36°C						
	09045 4K000 000	Coat visitor	0,292 (R) AP 2 x	11°C -2°C	18°C 5°C	0°C -16°C	7°C -6°C	-16°C -33°C	-5°C -20°C						
	09046 1K012 001	Jacket forklift driver	0,404 (B) AP 2 x	5°C -12°C	13°C -3°C	-9°C -28°C	0°C -16°C	-29°C -49°C	-16°C -33°C						
	09046 2K007 001	Trousers forklift driver	0,404 (B) AP 2 x	5°C -12°C	13°C -3°C	-9°C -28°C	0°C -16°C	-29°C -49°C	-16°C -33°C						
09046 1K012 000	Jacket forklift driver Plus	0,398 (B) AP 2 x	5°C -12°C	13°C -3°C	-9°C -28°C	0°C -16°C	-29°C -49°C	-16°C -33°C							
09046 2K007 000	Trousers forklift driver Plus	0,398 (B) AP 2 x	5°C -12°C	13°C -3°C	-9°C -28°C	0°C -16°C	-29°C -49°C	-16°C -33°C							
COMFORT	01183 1K007 002	Jacket	0,391 (B) AP 2 x	5°C -12°C	13°C -3°C	-9°C -28°C	0°C -16°C	-29°C -49°C	-16°C -33°C						
	01183 2K008 006	Trousers	0,391 (B) AP 2 x	5°C -12°C	13°C -3°C	-9°C -28°C	0°C -16°C	-29°C -49°C	-16°C -33°C						
	01183 1K008 001	Ladies' jacket	0,391 (B) AP 2 x	5°C -12°C	13°C -3°C	-9°C -28°C	0°C -16°C	-29°C -49°C	-16°C -33°C						
	01183 2K003 003	Ladies' trousers	0,391 (B) AP 2 x	5°C -12°C	13°C -3°C	-9°C -28°C	0°C -16°C	-29°C -49°C	-16°C -33°C						
	01183 1K005 000	Jacket order picker	0,435 (B) AP 2 x	2°C -16°C	10°C -6°C	-14°C -34°C	-3°C -21°C	-35°C -49°C	-21°C -39°C						
	01183 2K002 000	Trousers order picker	0,435 (B) AP 2 x	2°C -16°C	10°C -6°C	-14°C -34°C	-3°C -21°C	-35°C -49°C	-21°C -39°C						
	01183 1K006 000	Ladies' jacket order picker	0,435 (B) AP 2 x	2°C -16°C	10°C -6°C	-14°C -34°C	-3°C -21°C	-35°C -49°C	-21°C -39°C						
	01183 2K003 000	Ladies' trousers order picker	0,435 (B) AP 2 x	2°C -16°C	10°C -6°C	-14°C -34°C	-3°C -21°C	-35°C -49°C	-21°C -39°C						
	01183 3K001 000	Coverall order picker	0,443 (B) AP 2 x	2°C -17°C	9°C -7°C	-14°C -35°C	-4°C -21°C	-36°C -49°C	-21°C -40°C						
	01183 4K001 000	Coat visitor	0,274 (B) AP 2 x	12°C -1°C	19°C 6°C	2°C -13°C	8°C -4°C	-13°C -30°C	-3°C -17°C						
	01183 1K013 000	Jacket forklift driver	0,508 (B) AP 2 x	-3°C -23°C	5°C -12°C	-21°C -42°C	-9°C -27°C	-45°C -49°C	-28°C -48°C						
	01183 2K010 000	Trousers forklift driver	0,508 (B) AP 2 x	-3°C -23°C	5°C -12°C	-21°C -42°C	-9°C -27°C	-45°C -49°C	-28°C -48°C						
	01183 1K018 000	Jacket forklift driver Plus	0,511 (B) AP 2 x	-3°C -23°C	5°C -12°C	-21°C -42°C	-9°C -28°C	-45°C -49°C	-29°C -48°C						
	01183 2K010 000	Trousers forklift driver	0,511 (B) AP 2 x	-3°C -23°C	5°C -12°C	-21°C -42°C	-9°C -28°C	-45°C -49°C	-29°C -48°C						
HYGIENE	01174 1K007 001	Jacket	0,371 (B) AP 2 x	6°C -10°C	14°C -2°C	-7°C -26°C	1°C -14°C	-26°C -46°C	-14°C -30°C						
	01174 2K008 005	Trousers	0,371 (B) AP 2 x	6°C -10°C	14°C -2°C	-7°C -26°C	1°C -14°C	-26°C -46°C	-14°C -30°C						
	01174 1K005 001	Jacket order picker	0,417 (B) AP 2 x	3°C -15°C	11°C -5°C	-12°C -31°C	-2°C -19°C	-33°C -49°C	-19°C -36°C						
	01174 2K008 003	Trousers order picker	0,417 (B) AP 2 x	3°C -15°C	11°C -5°C	-12°C -31°C	-2°C -19°C	-33°C -49°C	-19°C -36°C						
	01174 4K001 001	Coat visitor	0,267 (R) AP 2 x	13°C 0°C	19°C 7°C	3°C -12°C	9°C -3°C	-12°C -28°C	-2°C -16°C						

If a cold protection suit is selected from this table for a specific workplace, it must be ensured that the hand and foot coverings also has sufficiently high heat insulation for the ambient temperature that is present and that the face and head are properly protected. The specified values are achieved only if a jacket and trousers of the same construction are worn. The heat insulation may be converted into clo: 1 clo=0,155 m²K/W.

IMPORTANT! TEMPEX® Cold Store garments are classified acc. to EN 342 Category II. Therefor it is not allowed to wear them at temperatures below -49°C.