

THE AIR GLOVE™ PRODUCT LINE

**ANTI-VIBRATION PROTECTION
DESIGNED FOR THE WORKER**



IMPACTO™
Protective Products Inc.
**ISO9001:2000
REGISTERED**



AIR401



AIR402



AIR471



AIR471-01



AIR473



AIR505



AIR601



AIR650



AIR690



AIR750



AIR790-40



**AIR
KEVLAR**

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THE SECRET



The Impacto Air Glove designs, utilize the patented ErgoAirSM AntiVibTM air bladder technology to meet all the ergonomic requirements for anti-vibration gloves, i.e. thin tactile surface to minimize grip stress, durable leather facing for long lasting wear, meets the European anti-vibration glove standard and is available in many styles including wrist supports to optimize protection in most industrial applications.

THE STANDARD

ISO Standard 10819 specifies the amplitude of vibration transmissibility that must be achieved for a glove to be classified as an antivibration glove. The standard requires the overall vibration transmissibility of a glove to be measured for mid frequencies (TR_M frequency range from 16-400 Hz) and for high frequencies (TR_H frequency range from 100-600 Hz).

TR_M must be less than 1.0, and TR_H must be less than 0.6.

THE TEST

Glove Material	ISO Weighted Transmissibility			
	CMEST (USA)		Delta (Denmark)	BIA (Germany)
AntiVib TM bladder	TR _M	0.78	0.72	0.87
	TR _H	0.51	0.51	0.58

The Impacto Air Glove is the only Anti-Vibration Glove to pass the ISO 10819 standard at both of the ISO approved test facilities in Europe.

PRACTICALLY SPEAKING

In a hands on trial at an automotive assembly plant the Impacto Air Glove successfully demonstrated reduced vibration exposure to the worker.

Test 1 and 2 (shown below) are significant as they demonstrate an improvement in the partial A(8) value from 4.5 m/s² to 2.2 m/s² when using the Air Glove. By utilizing the Air Glove the operator may use the specific tool tested for a cumulative time of 2 hours and 14 minutes before being exposed beyond the vibration thresholds established as a potentially harmful. Without the Air Glove the operator could only work for 32 minutes.

Test 1 Operator with anti-vibration glove (inner)

X – axis	3.8 m/s ²
Y – axis	3.8 m/s ²
Z – axis	0.4 m/s ²
Vector sum	5.3 m/s ²
Total intended duration	1 hr 25 m
Partial A (8)	2.2 m/s ²
A(8) Criterion	2.8 m/s ²
Maximum duration	2 hr 14 m
A(8) for employee	2.20 m/s ¹

Test 2 Operator without anti-vibration

X – axis	8.6 m/s ²
Y – axis	5.7 m/s ²
Z – axis	2.9 m/s ²
Vector sum	10.7 m/s ²
Total intended duration	1 hr 25 m
Partial A (8)	4.5 m/s ²
A(8) Criterion	2.8 m/s ²
Maximum duration	32 m
A(8) for employee	4.49 m/s ¹