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CARGO-FORCE® —Shockwatch Labels



Shockwatch is the best known **impact indicator**. It is an octagonal super label affixed to the goods or packaging. This device contains a tube filled with red liquid held in suspension. When it is subjected to an impact exceeding a specified G-level, the shock disrupts the surface tension of the liquid, releasing the highly visible red dye into the length of the tube, creating a permanent and immediate indication of mishandling. Normal movement or road shock won't affect the device. It is only activated by the specific impacts for which it is designed. Once activated, it cannot be reset.

Shockwatch detects and records impact and mishandling of fragile, sensitive, or calibrated during transportation. It works as an education tool that influences the behavior of handlers during the manufacturing and shipping process. They can also aid in ensuring product integrity and serve as a testing mechanism in comparing packaging. By monitoring the goods, it can also be used to prevent warranty abuse.

Product advantages

- *Precisely indication of mishandling in the process of packaging and shipment
- *Reduce over 50% damage of goods during storage and transportation
- *Ensure good quality and prompt measures once problems are found
- *Test the packaging, help to find packaging solution



Degree of sensitivity

strong ← weak

Specifications

Label size: 3.87"×3.81"(9.68cm×9.68cm) octagonal shape

Tube size: 1.35"×0.38"(3.43cm×0.965cm)

As indicated by the five different colors, Shockwatch can provide five inductive zones. Yellow, purple, red, orange and green, each color represents different G-force. Yellow is the one with highest sensitivity and green the lowest. The order is yellow, purple, red, orange and green. G-Force is indicated at the bottom of label.



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Application

As an effective monitor and recorder of impacts or collisions of goods during the transportation, **Shockwatch** is widely used in photocopying & photographic equipment, television, computer, DV, electronic equipment, audio & telecommunication equipment, auto engines and parts, glass products, precision parts, furniture, lighting, pharmaceuticals, biological products, blood banks, chemicals, developer, aerospace equipment, aviation network server system etc.



Product selection Guide

The choices of different indicators depend on the dimension (Length *Width*height) and weight of the goods. For bigger and heavier goods; indicators with higher sensitivity shall be selected.

Other factors need attention:

Packaging material: If the package design is strong and reliable, and the damage rate is very low, indicator with less sensitivity is recommended.

Precision degree: If the goods are very precise with high requirement of shipment, indicators with higher sensitivity shall be selected.

Product Structure: When the product has top heavy design with high requirement of shipment, indicator with higher sensitivity shall be selected.

Weight(lbs)/Shipment size	0-1Cubic Feet	1-5Cubic Feet	6-15Cubic Feet	16-50Cubic Feet	50+Cubic Feet
0-10	Green	Green	Orange	Orange	Red
11-25	Green	Orange	Orange	Red	Red
26-50	Orange	Orange	Red	Red	紫
51-100	Orange	Red	Red	紫	紫
101-250	Red	Red	紫	紫	Yellow
250-1000	Red	Red	紫	Yellow	Yellow
1000+		紫	Yellow	Yellow	Yellow

Expected Drop Height for ShockWatch Activation

Color Label	Yellow L-65	Purple L-55	Red L-47	Orange L-35	Green L-30
100lbs 以下	--	12-18"	12-24"	24-36"	36"+
100lbs 以上	6-12"	8-16"	12-18"	--	--



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Expected Drop Height for ShockWatch Activation / Metric

Color Label	Yellow L-65	Purple L-55	Red L-47	Orange L-35	Green L-30
< 45 kg	—	0.3–0.48 M	0.3–0.6 M	0.6–0.91 M	0.91 M +
>45 kg	0.15–0.3 M	0.2–0.4 M	0.3–0.48 M	—	—

Use method

Tear off the Shockwatch and stick to the appropriate position.

Method: Always affix Shockwatch at the upper right corner of the package label. The heavier the goods are, the lower position Shockwatch should be affixed to.

Shockwatch	Paste Position	Special case	Sensitivity
Green L-30	Near the upper right corner of the package label	none	= 100G
Orange L-35	Near the upper right corner of the package label	none	= 75G
Red L-47	Near the upper right corner of the package label	If there is plate or pallet, affixed to the upper right corner 24 " above the ground	= 50G
Purple L-55	50-100 lbs, affixed to the upper right corner	For large size items (L> 2 * width), affixed to both sides, on a diagonal	= 37G
Yellow L-65	Affixed to the upper right corner, 12 "-24" above the ground	none	= 25G

Packaging conditions

Each two Shockwatch share one paster. Use it once tear it off.

50pcs / box, 32 boxes / carton. In the transport of green, orange, red, the three less sensitive indicators, in order to protect them from collisions and wrongly activation, the carton shall be put into a **24 cubic inches** of big box and be suspended by padding **sponge 4-inch in thickness at the eight corners**.

In the transport of purple, yellow, the two indicators with higher sensitivity, the carton shall be put into a **28 cubic inches** of big box and be suspended in the air by padding sponge **5 –inch in thickness** at six sides(front, back, top, bottom, left, right) to avoid collision. Furthermore, a Red Shockwatch shall be affixed to the big carton, warning a handling with care.

Contact us



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