A Complete Commitment to Quality in Signaling and Safety Products

Quality is important in nearly every industry. But nowhere is quality and safety more intertwined than in emergency flares and other signaling and safety products.

Here at Orion, we're in the business of manufacturing products that law enforcement and safety professionals rely upon to protect their lives … not to mention ordinary consumers.

To us, safety means 100% product performance – every time. To accomplish this, we've implemented detailed protocols for quality-testing incoming raw materials, work-in-progress and finished goods.

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In addition to our own highly stringent quality control standards, our products are manufactured to the specifications of the Bureau of Explosives, Underwriters Laboratory (UL) and the Federal General Services Administration. Orion receives onsite facility inspections from GSA and UL to verify compliance with the comprehensive quality assurance program Orion has instituted, maintained and upgraded over the years.

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With respect to actual product performance, each batch/mix of flare composition is tested for burning quality (which includes color, intensity and consistency) as well as burning time. Positive test results are required for each batch of mix before it is released into production. Once the mix is transformed into an actual flare, another random sampling is burned and tested for burning quality and time. This same process is repeated at two additional stages in the production process to assure that every highway flare that leaves the Orion plant exceeds Bureau of Explosives and UL specifications.

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Due to the high expectations of quality and the substantial quality control involved in selling to select Federal and State agencies, we are painstakingly selective in sourcing the various raw materials for our flares. As an example, obtaining the proper paper for the tube housing is critical in achieving optimal visibility. Orion utilizes a special paper which enhances the performance of the product by producing a minimal amount of ash. For the user, this means the flare will not "chimney" (i.e., when the head of the flare burns inside the paper, blocking the signal visibility). Flares made from inferior, low-cost paper will not function effectively and the effect may not be known until it’s too late.