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Topic	Question ID	Question	Answer
OFFICE: ALARM SYSTEMS	OFF-130.1.US	1. Does the facility have an employee alarm system? Cite: 29 CFR 1910.136(a)(2) 29 CFR 1910.136	Yes
OFFICE: ALARM SYSTEMS	OFF-130.1.US	2. Is the employee alarm system tested annually? Cite: 29 CFR 1910.136(b)(4)	Yes

G. AUDIT QUESTIONS

Date: _____

Facility: _____

Auditor: _____

Question ID	Audit Questions	Auditor Guidance And Notes - Audit Questions	Y E S	N O	N A	Comments
ERGONOMICS						
OFF-146.1.U.S	1. Are workstations configured so that employees can achieve ergonomically correct working postures?	Workstations should be configured to prevent common ergonomic problems. The computer keyboard and mouse should be within easy reach and at a comfortable height (elbow high), the keyboard and monitor should be aligned, and the screen should be at or slightly below eye level. There have been no issues.				
OFF-140.2.U.S	2. Are chairs used at workstations adjustable and in good condition?	Chairs so that employees can work in a comfortable seated position, with good body support. Chair height should allow feet to rest flat on the ground with thighs parallel to the				

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Uniflow LE AireStream Fume Hood

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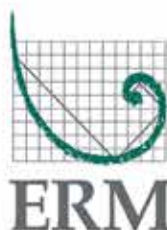
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Revised Ambient Air Monitoring Quality Assurance Requirements

ABSTRACT

The revised air monitoring quality assurance requirements are EPA's first comprehensive changes to the air monitoring rules since 2006. These changes formalize many changes that had been informally adopted by Agency memorandum and guidance documents. Many of the changes were driven by improved monitoring technology—such as continuous particulate matter analyzers—that were not commonly available at the time of the previous update.

The revised rules also revert to the pre-2006 structure whereby state and federal monitoring program requirements are set out in Appendix A, with industrial PSD monitoring requirements specified in Appendix B. EPA provides a summary of the changes at the following URL:

https://www3.epa.gov/ttnamti1/files/ambient/pm25/Summary_of_Appendix_A_Changes_10201_25_2016.pdf

ARTICLE

Key Changes

The revised regulation once again separates the quality assurance requirements applicable to state and federal monitoring programs from those for industrial PSD monitoring. This change recognizes the many differences in the objectives and implementation approach between the state and industrial monitoring programs. Other significant items include:

- Increased emphasis on the role and responsibilities of the Primary Quality Assurance Organization (PQAO)
- Requirement that EPA be provided a courtesy copy of an organization's Quality Assurance Project Plan (QAPP), even if that PQAO has been delegated QAPP review authority by EPA
- Clarification of the applicable system and performance audits and required frequency for each type of monitoring program
- Updated calibration and audit ranges for gaseous analyzers

Impacts On Existing Monitoring Monitoring Programs

Total Chemical Resistant Uniflow SE AireStream Fume Hood

UniFlow AireStream Fume Hoods are constructed entirely of chemical resistant, flame retardant, non-metallic composite resin materials and features an exclusive "Unitized" construction that does not require screws, bolts, rivets, or metallic hardware for assembly. The fume chamber is molded one piece seamless with all corners coved for easy cleaning and light reflectivity. This series of fume hoods is UL 1805 certified and is offered in 48", 60", 72" and 96" widths in either constant air volume or restricted bypass models.

The AireStream Fume Hood is a high performance fume hood that maximizes user protection and energy savings. This hood is

equipped with a 36" high extended view height, exclusive vector slotted rear VaraFlow baffle system, aerodynamic sash lift with perforated air-sweep feature, and molded-in belled outlet collar for reduced airflow resistance. The lighting is a vapor proof LED strip fixture with a central switch, pre-wired to a single point junction box 115V /60Hz. Hood is shipped completely assembled and can include a wide selection of accessories that can be factory installed to meet your specific need. Work surfaces in a variety of materials and a choice of base cabinets including acid or flammable storage are optional as required.

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Wood Construction Safer Choice for Flammable Storage Cabinets Myth of Flammables Storage is Busted

The long held belief that flammable liquids should be stored in a metal storage cabinet is a dangerous myth. Using wood instead could actually save lives! The simple truth is that metal, even 2 layers of sheet metal with 1-1/2" of air space between them, is a quick conductor of heat. A properly built wood cabinet will begin to burn on the outside, but will keep heat from penetrating to the volatiles inside incredibly longer than a metal cabinet. The wood actually acts as a thermal insulator. OSHA 1910, NFPA 30, and UL 1275 have specific guidelines for the construction of a wood flammable storage cabinet because it works!

SciMatCo conducted a side by side fire burn comparison in which a 1900 degree Fahrenheit fire engulfed both a wood and metal storage cabinet. Within mere minutes, the internal temperature of the metal cabinet reached an



astounding 1400 degrees Fahrenheit. The wood cabinet, built according to NFPA standards, experienced internal temperature rise of only 8 degrees Fahrenheit during the entire 12 minute duration of the fire, keeping all contents cool, safe and secure. Keep in mind that glass bottles break at only 212 degrees Fahrenheit and plastic bottles melt at 320 degrees. Any flammables stored in glass, plastic or metal containers inside a metal storage cabinet engulfed in fire are not protected from heat, and will quickly FUEL the fire while the wood cabinet keeps contents cool and safe. Fire doors in most hotels and buildings are made of wood for the same reason – they don't conduct heat and they create a better barrier from fire.

Many believe that a flammable storage cabinet is intended to confine a fire that originates inside the cabinet. Not so! The idea is to keep the heat and fire outside the cabinet from reaching the contents for a sufficient period of time to allow people to escape and emergency personnel to respond. The properly built wood cabinet can accomplish this while the metal cabinet places people and property at tremendous risk. View the fire burn comparison video at www.scimatco.com •



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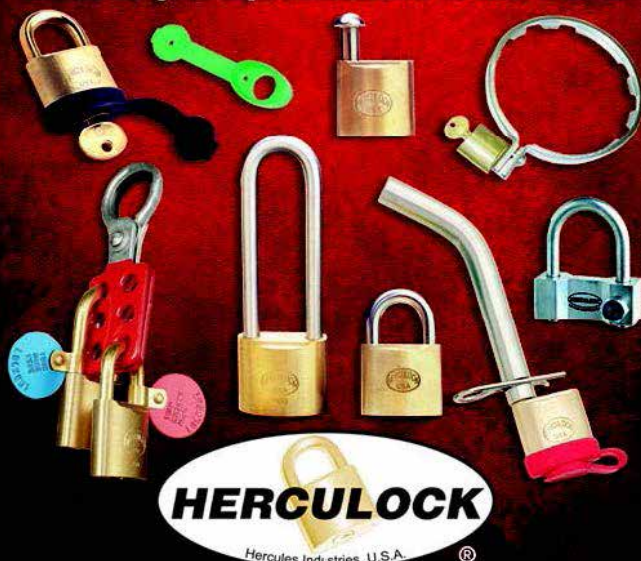
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Gas Clip Technologies' continued development and refinement of **advanced low-power photometric infrared technology** for LEL detection of hydrocarbon gases has made gas detection simpler and safer than ever. Non-infrared (pellistor/catalytic bead) LEL sensors, like those used for LEL detection in most current multi gas detectors, contain a bead with a filament which has to heat up to detect gas. That continual heating process takes an enormous amount of energy which quickly depletes the detector's battery. By the end of a shift the battery is drained and has to be recharged. The **Multi Gas Clip Simple** uses a **low-energy infrared beam of light** inside the LEL sensor to detect gas. This innovative technology has an extremely low drain on the battery which allows it to last for months instead of hours.

How the Multi Gas Clip Simple works in inert environments

Detectors that use pellistor/catalytic bead type LEL sensors require oxygen to be present to perform the necessary heating process to detect combustible gas. The **Multi Gas Clip Simple's** infrared LEL sensor needs no oxygen to detect combustible gas. **It detects with an infrared beam of light**, so there is always an accurate reading in oxygen enriched or oxygen depleted environments.

Benefits of the infrared LEL sensor

Key disadvantages of the pellistor/catalytic bead LEL sensor include: the sensor's fragile bead and filament could break if the detector is accidentally dropped, it has a tendency to heat up and burst when suddenly exposed to high levels of gas and it can be poisoned over time with exposure to typical sensor poisons such as H_2S or silicones. The infrared LEL sensor in the **Multi Gas Clip Simple** **has no fragile filament or bead to break, burst or get poisoned**. The continuous self-test function and fail-to-safe features of the infrared LEL sensor provide assurance of protection. **If the infrared LEL sensor is unable to detect gas for any reason, the detector immediately notifies you.** With the **Multi Gas Clip Simple**, you will know that you are always protected.

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UniFlow Laboratory Fume Hoods

HEMCO UniFlow Laboratory Fume Hoods are the most complete line of fume hoods in the industry. UniFlow AireStream low flow high performance fume hoods feature an exclusive all composite resin construction that is chemical resistant, flame retardant, lightweight, and meets UL 1805, SEFA 1, Ashrae 110, and ANSI Z9.5 standards. These hoods have a molded one piece seamless composite resin interior fume chamber that has all coved corners and is white for superior light reflectivity. Available in sizes from 30" to 96" wide and in depths of 24" to 48", and in CAV (air bypass) or VAV (restricted bypass) models. A wide selection of accessories and services are optional to meet exact user requirements.

Other UniFlow Fume Hoods are engineered and built for specialty application such as perchloric acid that has either a type 316 stainless steel or PVC welded one piece interior fume chamber including worksurface and rear drain trough, acid digestion that has an HDPE welded one piece interior fume chamber including worksurface and optional rear drain trough, radioisotope that has a type 304 stainless steel welded one piece interior fume chamber including worksurface, and trace metals that has a polypropylene welded one piece interior fume chamber including the worksurface. Each of these fume hoods would still have the composite resin exterior superstructure in lieu of traditional painted steel.

Support base cabinets, heavy duty tables and either epoxy resin, phenolic resin or stainless steel dished worksurfaces are offered to complete the UniFlow fume hood installation. Additional lab furniture can be designed with the fume hoods including sinks, faucets, wall cabinets to complete the laboratory. •

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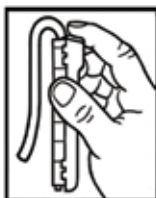
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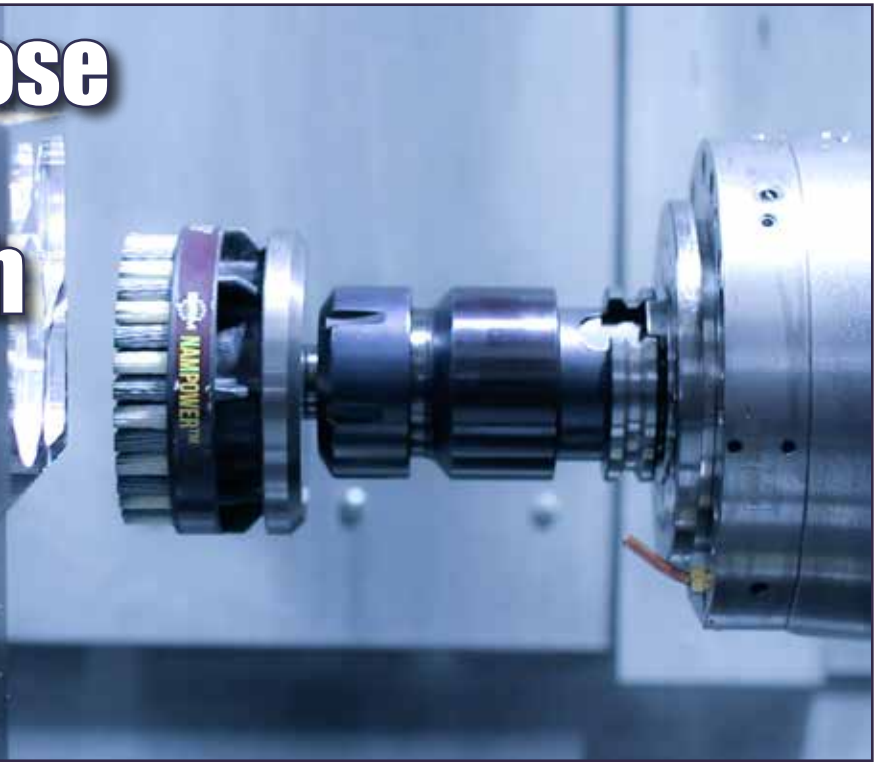
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Multi-Purpose Abrasive Nylon Brush Becomes Staple in Machine Shops



Abrasive nylon brushes prove to be flexible and useful finishing tools for deburring, edge breaking, surface finishing and corrosion removal on metal and alloy workpieces

In contract manufacturing, removing excess material that remains on a metal part after fabrication is an important finishing step. Despite utilizing increasingly sophisticated machining centers, however, much of the secondary finishing work is still performed by hand using oscillating tools, grinders, files, abrasive hand pads and wire brushes.

This labor-intensive approach only serves to drive up costs – for both the shop and, ultimately, the customer – while yielding inconsistent results. For those parts that do not meet the specifications, reworking may also be required.

As a result, contract manufacturers are turning to new finishing tools that can be easily integrated into automated machinery, CNC machines, transfer lines or robotic cells in an effort to reign

in costs and achieve more consistent results.

These new options include abrasive nylon brushes that can be used for a variety of finishing operations including deburring, edge breaking, surface finishing and even light corrosion removal. In some cases, these multi-purpose tools can also eliminate machining operations traditionally performed by chamfer tools and face mills.

“We have implemented abrasive brushes on every CNC machine we have, which includes our live tool lathes,” says Eric Sun, Founder of Orange Vise Company.

In addition to manufacturing CNC machine vises and quick change fixturing components, Orange Vise also performs a significant amount

of contract manufacturing. The disc brushes he utilizes are from the NamPower line developed by Brush Research Manufacturing.

Composed of flexible abrasive nylon filaments bonded to a fiber reinforced thermoplastic base, the abrasive disc brushes contain a unique combination of both ceramic and silicon carbide abrasive.

The abrasive filaments work like flexible files, conforming to part contours, wiping and filing across part edges and surfaces of non-ferrous, cast iron, mild steel and ductile iron, stainless and alloy steels, titanium and high nickel alloys.

“For us, there really isn’t another solution, because the alternative is to have a worker use a file or a handheld abrasive pad, and the part is not going to have the finish you get with the

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abrasive nylon brushes,” says Sun.

Edge Finishing, Often Without Chamfer Tools

Finishing sharp edges between two faces of a part, as well as deburring bits of metal or imperfections caused by the cutting action of the tools, can be accomplished with a variety of techniques.

Hand finishing is an option, as are options such as tumbling. Chamfering tools are also frequently used to provide a transitional edge at 90 degree angles, as well as for deburring. For some contract manufacturers, however, eliminating the chamfering step can prove valuable.

“I run the abrasive nylon brushes over any fairly flat part I have going in the

mill,” says Ken Spaulding of Zodiac Engineering, a contract manufacturer in California with a background in aerospace parts as well as mold making. “I don’t want to use a chamfer tool for edge breaking or deburring if it’s not necessary.”

The majority of the machining work Spaulding currently focuses on includes pocket knives as well as cycling components for BMX, road and mountain bikes. Spaulding sells products of his own design, along with contract manufacturing.

Spaulding uses the NamPower abrasive discs on his CNC and manual milling equipment for light deburring as well as surface finishing of various types of metals and alloys. For the pocketknives, this includes stainless steel for the blades and titanium and zirconium for the frames and handles; and 6061 aluminum for the bike stems and 7000 series aluminum for the sprockets.

“With the brushes, I get a very predictable and consistent edge break and surface finish,” says Spaulding. “I can do it inline and it is a lot more predictable and reliable than breaking edges by hand.”

For the cycle sprockets he produces, for example, Spaulding runs the brushes over the teeth in a single pass on each side of the part.

“The brushes deburr pretty much every side of the tooth, so I don’t have to run a chamfer tool around the edges. Also, tumbling doesn’t really get inside the teeth, like the brush does,” explains Spaulding.

Even when chamfer tools are specified, the edges may still require deburring.

“Chamfering tools are just half of the

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potential use for the abrasive nylon brush. Although most manufacturers specify the degree of edge finishing, there can be gray areas where a customer may not want a sharp 90 degree edge but does not specify chamfering.

In cases like this, Orange Vise may slightly round off the edges and corners with an abrasive nylon brush. The rounding can be minimal, if necessary, so it is not visible to the naked eye.

puzzle,” says Sun of Orange Vise. “The other half is some sort of abrasive method, such as tumbling. However, tumbling can be impractical for larger parts or anything that needs to remain dimensionally unaffected.” Instead, Sun finds abrasive nylon brushes “complementary” to 45 degree chamfering tools. This extends to chamfered holes.

“Often chamfers leave burrs on the top and the inside edges of drilled holes, so we use the NamPower brushes because they are flexible enough to remove any burrs from the top edge, while going into the hole enough to deburr the lower edge,” says Sun.

Minor edge breaking is another

Surface Finishing Without Face Milling

In addition to edge finishing, the abrasive nylon brush has application for surface finishing. In some cases, this can replace the use more aggressive face mills, flycutters or grinders.

Sun describes the finish as “almost like

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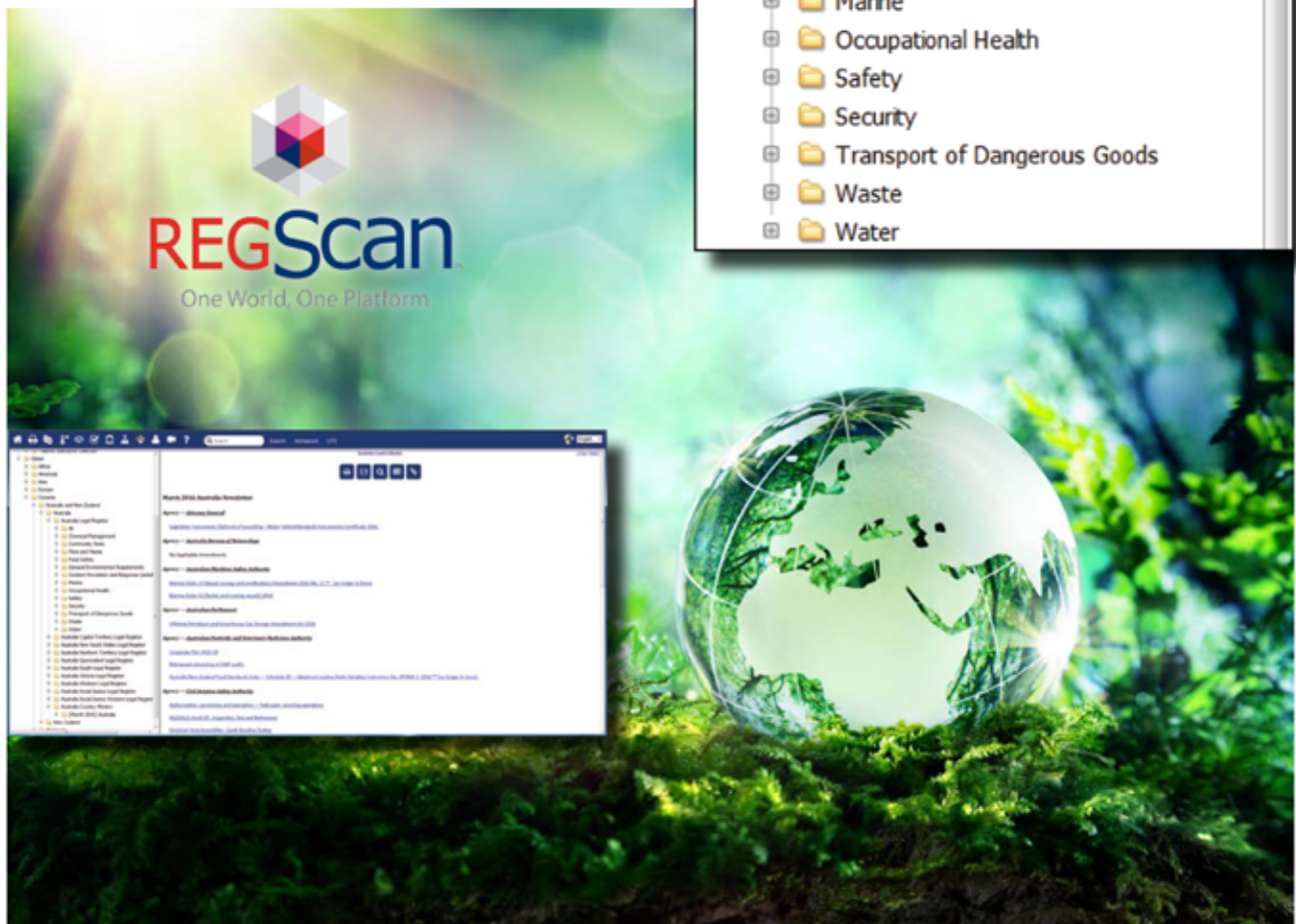
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Published monthly and authored by environmental lawyers, the RegScan Country Monitor covers the same topical areas (listed below) as our global legal registers and audit protocols. Our globetrotting experts review multiple sources for crucial regulatory developments, and provide clear analysis on what they REALLY mean for EH&S professionals.

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handle a similarly sized face mill," says Sun.

Corrosion Removal

Another potential use for the tools is light corrosion removal, often without affecting specified tolerances.

"With only a few passes a 120 or 180-grit brush, you can remove a significant amount of rust without affecting the dimensions of the workpiece," says Sun. "On steel, for example, it is unlikely to create a measurable difference."

"The pattern will be nice and even as opposed to if you use a handheld abrasive hand pad where the patterns may run in random directions," says Sun.

Sun cautions that aluminum is more susceptible to dimensional changes when using abrasives, so a finer grit brush may be required. However, the removal of

a milled finish, with a consistent swirl pattern in one direction."

"The surface finish was good enough that we were actually blending it with our ground finishes on our vices," says Sun. "With large surfaces that required multiple passes, there were no visible blends. The whole thing looked like it was done in one pass."

He adds that there are times when a workpiece or even a machine does not lend itself well to using a large face mill, creating the need for multiples passes to accomplish the task.

"You can use a brush to create a cosmetic 6" pattern even if the machine can't

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material is minimal – measured in ten thousandths of an inch – so if the tolerances are within a fairly typical 2-3 thousandths of an inch, it would not be an issue.

Tool Configurations

According to Spaulding of Zodiac Engineering, the brushes are available in a variety of options including two fill configurations: the Dot Style, for general purpose deburring and surface finishing and the Turbine Style, which has a higher density fill for more aggressively deburring.

Sizes include 100mm, 125mm and 150mm diameters at trim lengths 18mm or 38mm. Available grits include 80, 120, 180 and 320.

“With the different grits, diameters, and trim lengths, the abrasive nylon brushes are extremely versatile as long as you have a few different sizes and styles,” says Spaulding.

For more information, contact Brush Research Manufacturing, Brush Research Mfg. Co., Inc., 4642 Floral Drive, Los Angeles, CA 90022; Phone: (323) 261-2193; Fax: (323) 268-6587; email: info@brushresearch.com.

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GORE® FR Apparel is a new line of FR foul weather outerwear products designed to meet the demanding needs of oil and gas workers. A jacket, bib, and detachable hood combination offers protection from incidental flame exposure and weather protection across a wide range of environmental conditions, while offering moisture management to improve comfort and safety. The durable, lightweight 2-layer ePTFE membrane construction also helps protect workers from exposure to hot liquids, steam common oilfield contaminants, and allows for easy care and cleaning.

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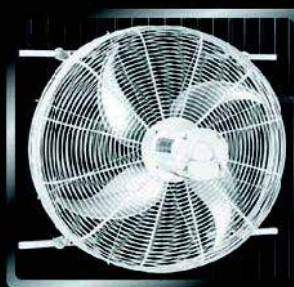
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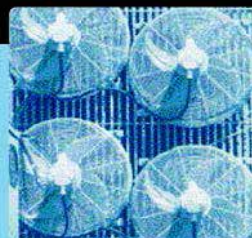
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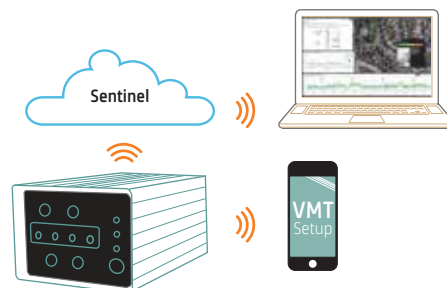
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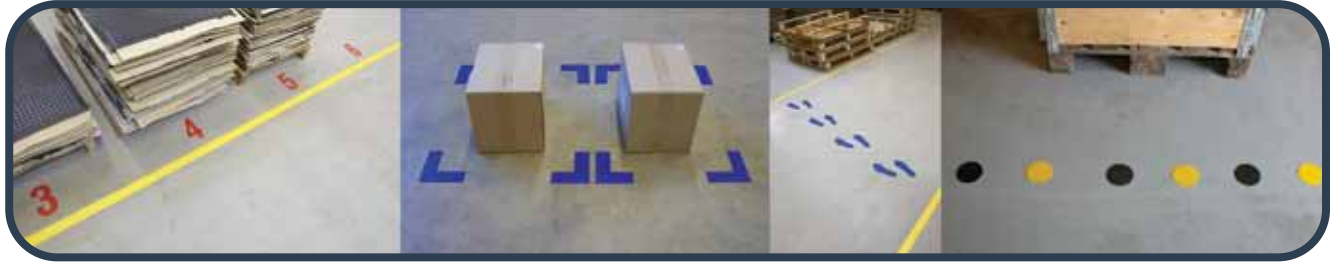


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