Breakthrough in Laser Scale Removal as Chemical Methods, Inc. Proves Revolutionary Non-Sulfuric Acid Laser Scale Chemistry

The increasing popularity of laser cutting and welding of metal parts prior to the painting process is causing problems for finishers. Using a laser to cut metal creates a difficult to remove oxide scale on the metal. As the use of lasers in the metalworking industry has grown, this scale produced during the laser cutting process has become one of the most widely encountered inorganic soils in the metal finishing industry. Historically laser scale removal chemicals have been based upon sulfuric acid, which removes the scale but causes side effect problems. Chemical Methods has developed a laser scale remover that does not use sulfuric acid.

(PRWEB) June 9, 2005 -- “The oxide layer formed during the laser cutting process manifests itself as a loosely adhering scale that easily chips and cracks from the metal surface upon impact. Therefore, its removal is necessary before painting. Otherwise, adhesion failure, customer complaints and warranty claims will result,” said Tom Fabek, VP Sales & Marketing.

The removal of laser oxide scale can be accomplished by mechanical means such as paying workers to use grinding wheels or abrasive blasting, but they are often expensive and inefficient. Using specialty chemicals in automated spray wash systems to remove laser oxide scale requires more up-front planning, but pays significant dividends in terms of efficiency, product quality, lower total product life cycle costs and increased profits.

“Laser oxide scale removal products that are composed mostly of sulfuric acid are extremely aggressive. They remove the laser scale but a negative side effect is that the sulfuric acid often causes damage to the tunnel washers. To address this problem, we have developed an effective laser scale cleaner that does not contain any sulfuric acid,” said Dan Gaba, Technical Director of Chemical Methods.

Now in its 35th year, Chemical Methods is a leader in developing and marketing innovative surface treatment chemicals, metalworking fluids and corrosion inhibitors. The company is headquartered in Cleveland, Ohio. More information about the company and its capabilities is available at our web site www.chemicalmethods.com or call 1-216-476-8400.

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