

PURE STREAM

Solutions for reducing
fume emission



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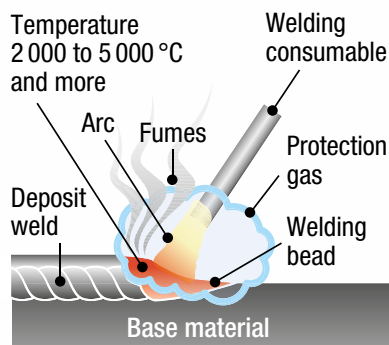
PURE STREAM

Pure Stream is not only a customized offer but also an initiative to reduce the exposure of welding fumes to the welders.



Where are the fumes coming from?

Welding fumes are essentially coming from the consumables as well as the type of mode transfer and the welding process.



Welding consumables
Welding process
Arc transfer



Welding arc
temperature between
2000 to 5000°C and more

Metallic vapors

Decreasing temperature

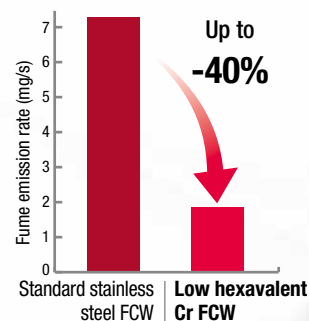
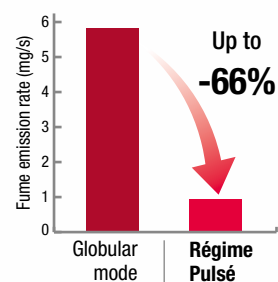
Condensation + Oxidation

Creation of particles

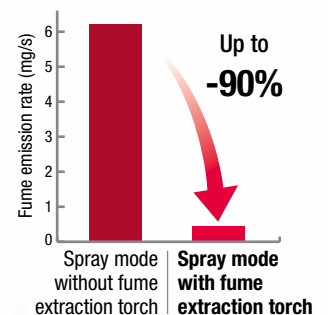
Why are welding fumes becoming a major issue at welding workshops?

National regulations for each country **require Permissible Exposure Limits (PEL)** for fume emission and also for some elements considered as dangerous for welders' health.

For example: in France, PEL for fume emission is fixed at **5 mg/m³**.



Fume emission levels (mg/s)





In which way is *Pure Stream* the best solution for me?

When a manufacturing company is looking for solutions to limit the exposure of welding fumes to its welders, it might be necessary to reconsider some elements in the production process.

Which questions need to be answered?

- Am I ready to change welding parameters?
- Am I ready to change welding process?
- Am I ready to change welding consumables?
- Am I ready to implement a fume extraction solution?

Pure Stream is the solution that corresponds to the answers above, and is therefore by definition the most adequate solution adapted to your specific situation.



Who can help me to find a solution for reducing the exposure of welding fumes to my welders?

Oerlikon, a **leader in developing and producing welding equipment and consumables**, has the right expertise to help you to choose **the most effective solutions for reducing the potential exposure of welders to welding fumes in your workshops**. Oerlikon is **YOUR** partner in weld fume control with the *Pure Stream* solution.





Contact

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