

Our best gas solutions for TIG welding of austenitic stainless steel

Improved productivity

Fewer rejects

A better working environment



Inomaxx® TIG (R1 ArH2)*

With 2% hydrogen added to pure argon, the best gas for TIG welding austenitic stainless steel**.

- Increased welding speed
- Improved penetration
- Less surface oxidation
- Lower gas consumption and overall costs
- Less post-weld cleaning
- Lower ozone emissions

And now it's available in our high-volume 300 bar packages including our Integra® cylinder.



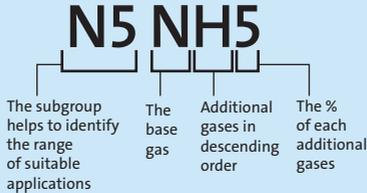
Photos taken at Amazon Filters

N5 NH5*: Protect the underside of the weld

Air Products recommended purging and backing gas for austenitic stainless steel**.

If you are still using pure argon as a purging or backing gas, we recommend you switch to N5 NH5 (5% hydrogen in nitrogen) mixture. You'll notice the difference immediately: the hydrogen scavenges any remaining oxygen inside the pipe or object being welded to avoid contamination, while improving root bead penetration at lower amperage.

ISO14175/AWS 5.32 uses a logical convention to allocate a designation to identify weld process gases and categorise them into logical groups.



Ar = Argon
He = Helium
C = Carbon Dioxide
O = Oxygen
H = Hydrogen
N = Nitrogen

Seeing is believing

Get a free expert assessment

Experience Inomaxx® TIG and N5 NH5 in action at your site, and get expert advice on optimising your operational performance with a comprehensive, objective and confidential evaluation of your processes and practices.

* All Air Products weld process gases meet or exceed the requirements of ISO 14175/AWS A5.32 Welding consumables – Gases and gas mixtures for fusion welding and allied processes.

** Common grades include: 304 also known as X2CrNi18-10 and 316 also known as X5CrNiMo 18-14-3.

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