

Integrity of your metal pipes

YOUR CHALLENGES

Assess the integrity of your metal pipelines that can carry gas and hydrogen, in order to guarantee the highest level of safety under optimal operating conditions and availability.

OUR VALUE-ADDED SKILLS

- Knowledge of the mechanical properties of the metal network via mechanical and metallographic characterization on specimens and mini-specimens in a natural gas and high-pressure hydrogen gas environment.
- Evaluation of the criticality of defects without and/or with external stresses, and their repairability (possibility of carrying out full-scale hydraulic tests with fault creation).
- Calculation of the residual life of infrastructures
- Modeling the mechanical behavior of infrastructures by finite elements;
- Tools for inspecting structures (instrumented pistons, non-conventional tools) and non-destructive testing technologies.

OUR REFERENCES

- Carrying out technical studies combining literature monitoring, analytical and numerical calculations (finite element modelling) and small and/or full-scale tests
- Drafting of a roadmap on the integrity of metal pipelines for the transportation of natural gas and hydrogen.
- Identification of the impact of hydrogen on the material properties of the transport network and on all integrity aspects.
- Provision of level 3 technical assistance in fault analysis or repair in operational support.

PRICE OF THE SERVICE

Tailor-made service adapted to your industrial characteristics.
Contact us to specify your needs and receive a personalized offer.

THEY TRUST US



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OUR CONTACT

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