

## TEST DI DISBONDING (HID hydrogen induced disbonding)



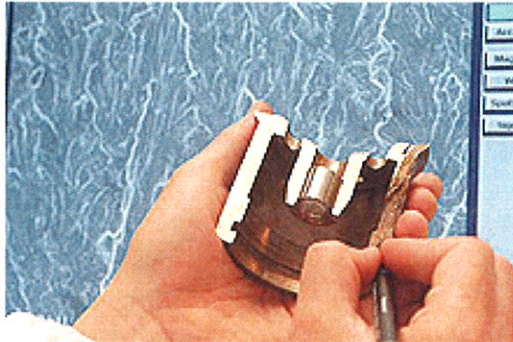
A new equipment has been installed within our laboratories, under section "Corrosion Tests and protection of metals"; **this device is suitable of carrying on the Disbonding test (HID)**

### WHAT IS IT?

**The Disbonding test** is a test in which a sample prepared generally according to ASTM G146, is conditioned in a hydrogen-rich environment at high pressure and high temperature according to customers and/or product specification cycles and it is then evaluated by ultrasonic non-destructive test and metallographic examination for the evaluation of the detachment caused by the action of hydrogen.

### WHAT IS IT FOR?

**The Disbonding test** measures the susceptibility of bimetallic systems or surface layers to get detached or to present bulges in environments rich in hydrogen under extreme conditions of temperature and pressure.



## WHO IS IT FOR?

In general the test is carried out on specimens or test plates representing systems where service conditions require the presence of hydrogen at high temperature and high pressure. Usually in these systems, base materials with surface welding layers are used. In general these tests are performed to characterize **oil & gas, production of energy or chemical industry applications.**

### Equipment limits

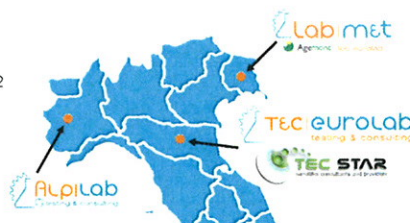
- Volume of the chamber 2 l
- Maximum exercise pressure 300 bar
- Maximum testing temperature 500°C

**TEC Eurolab S.r.l.**  
 Viale Europa, 40  
 40011 – Campogalliano (MO)  
 Tel 059 527775 Fax 059 527775  
 E-mail [info@tec-eurolab.com](mailto:info@tec-eurolab.com)  
[www.tec-eurolab.com](http://www.tec-eurolab.com)

**TEC Star S.r.l.**  
 Viale Europa, 40  
 40011 – Campogalliano (MO)  
 Tel 059 526845 Fax 059 527000  
 E-mail [info@tec-star.it](mailto:info@tec-star.it)  
[www.tec-star.it](http://www.tec-star.it)

**LABMET S.r.l.**  
 Via Venezia, 22  
 38085 – Maniago (PN)  
 Tel 0427 709314 Fax 0427 737522  
 E-mail [info@labmet.it](mailto:info@labmet.it)  
[www.labmet.it](http://www.labmet.it)

**ALPILAB S.r.l.**  
 Corso Torino, 91/A  
 10090 – Buttigliera Alta (TO)  
 Tel 011 9761067 Fax 011 9342478  
 E-mail [alpilab@alpilab.com](mailto:alpilab@alpilab.com)  
[www.alpilab.com](http://www.alpilab.com)



Credits: www.photl.com