

## IV. ACKNOWLEDGMENT.

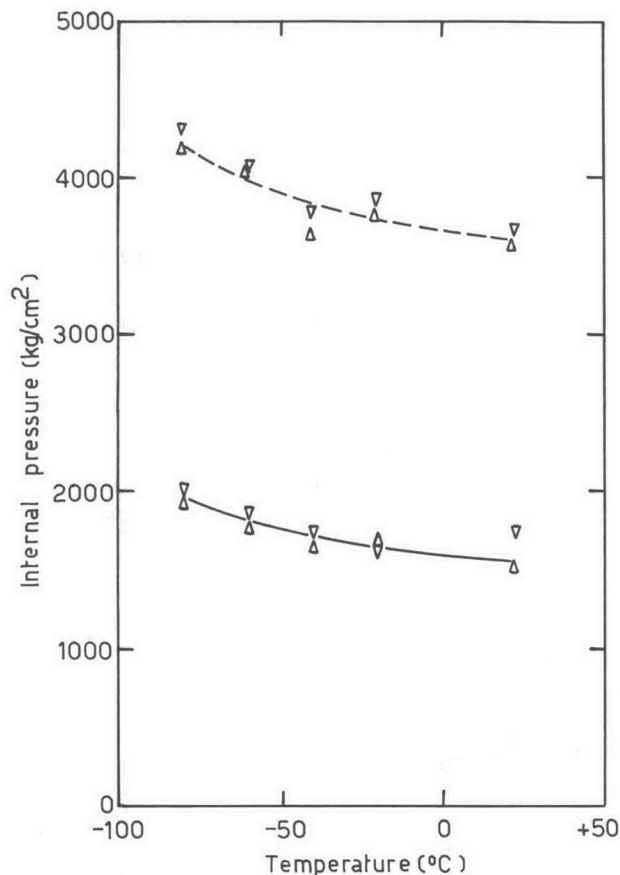
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I express also our sincere thanks to all my research and technical fellows who were associated with this work for numerous years.

June 1965.

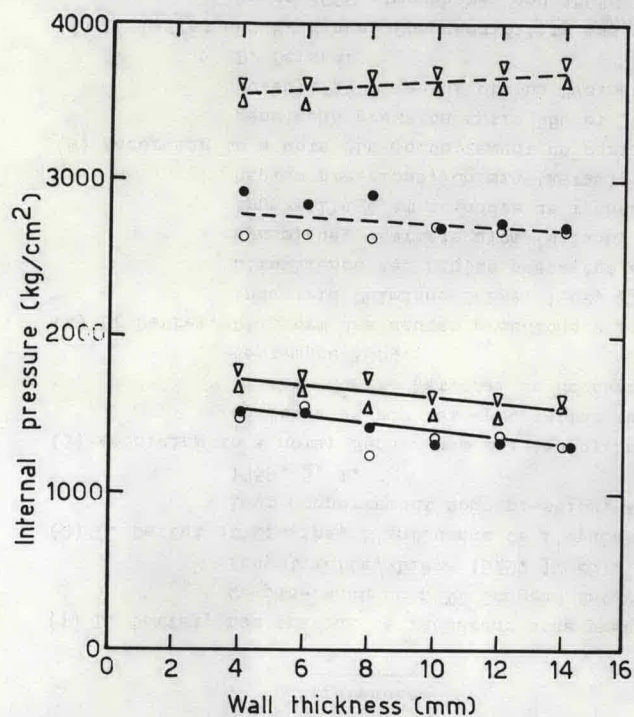
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- (3) According to a note: Recherches sur les cylindres à parois épaisses et sur les éprouvettes tubulaires by J. Gouzou, of the "Centre National de Recherches Métallurgiques", Septembre 1964.
- (4) L. Deffet, L'apport des hautes pressions à l'industrie chimique, Industrie Chimique Belge, 1962, 27, 335.  
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- (5) According to a note "Le comportement de certains aciers à l'hydrogène sous pression entre 550 et 700°C, by R. Berger, Scientific Director of the "Usines E. Henricot" and L. Deffet.
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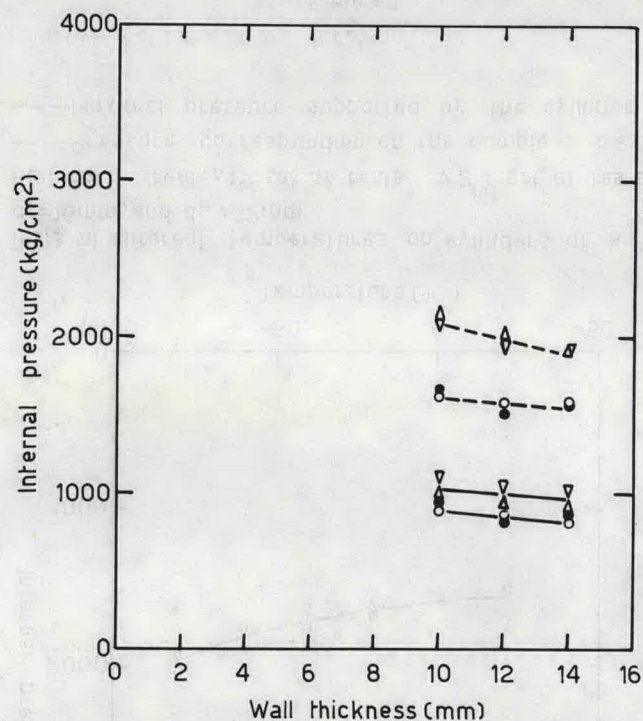
Tests at different temperatures on cylinders of  $k=2$  ratio, with  $d_i=16\text{mm}$ , and  $d_e=32\text{mm}$   
 Half-hard steel:  $\Delta$  1<sup>st</sup> set of tests  $\nabla$  2<sup>nd</sup> set of tests  
 — Pressure corresponding on the complete plasticity.  
 ---- Maximal pressure supported by the cylinder before rupture.

Figure 1



Tests on ambient temperature on cylinders of  $k=2$  ratio  
 Mild steel:  $\circ$  1<sup>st</sup> set of tests  $\bullet$  2<sup>nd</sup> set of tests  
 Half-hard steel:  $\Delta$  1<sup>st</sup> set of tests  $\nabla$  2<sup>nd</sup> set of tests  
 — Pressure corresponding on the complete plasticity.  
 --- Maximal pressure supported by the cylinder before rupture.

Figure 2



Tests on ambient temperature on cylinders of  $k=1.5$  ratio  
 Mild steel:  $\circ$  1<sup>st</sup> set of tests  $\bullet$  2<sup>nd</sup> set of tests  
 Half-hard steel:  $\Delta$  1<sup>st</sup> set of tests  $\nabla$  2<sup>nd</sup> set of tests  
 — Pressure corresponding on the complete plasticity.  
 --- Maximal pressure supported by the cylinder before rupture.

Figure 3