

# Analysis of powders

Powders can actually be measured by GDS. Sample preparation requires pelletising in a die.

Usually a binder is required which could be Cu or Ag - whatever element is not important for the analysis.

The sample preparation technic will be familiar to the people doing Infra Red analysis : a constant ratio sample/binder has to be kept by weighing the samples and the mixing has to be done carefully to avoid inhomogeneities.

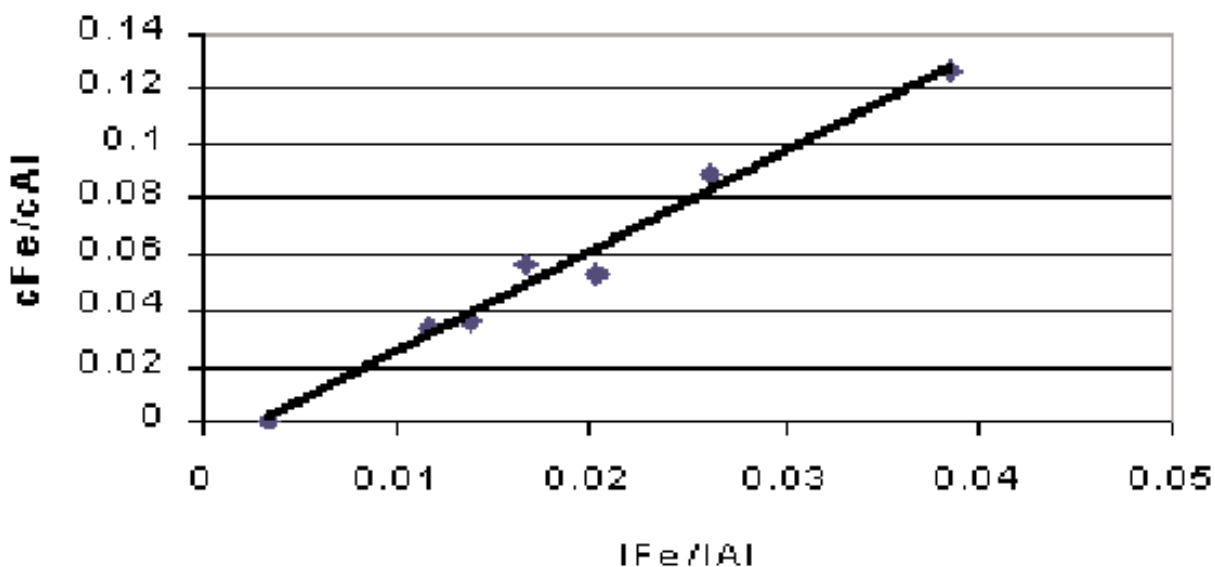
As GD operates under a vacuum atmosphere, a 20

tons pressing is required more than the normal pressing for IR (about 5 tons).

In addition the use of the small sample holder helps in preventing any possible leak to happen.

This sample preparation technic is relatively straightforward and will be appreciated by customers who have difficulties or are reluctant to dissolve their powders for an analysis by ICP.

The following calibration curve was obtained on some oxydes powders. It is linear and the correlation is excellent showing that the technic is a valid one.



Key points : GD can analyze powders. Sample preparation requires pelletizing.

**In the USA:**  
Jobin Yvon Inc.  
3880 Park Avenue  
Edison, NJ 08820-3012  
Toll-Free: +1-732-494-8660  
Fax: +1-732-549-5125  
E-mail: info@jobinyvon.com  
www.jobinyvon.com

**In France:**  
Jobin Yvon S.A.S.  
16-18 rue du Canal  
91165 Longjumeau cedex  
Tel : +33 (0) 1 64 54 13 00  
Fax : +33 (0) 1 69 09 07 21  
E-mail : info@jobinyvon.fr  
www.jobinyvon.fr

**In Japan :**  
Horiba Jobin Yvon CO., LTD.  
Higashi-Kanda Daiji Building  
5<sup>th</sup> Floor Higashi-Kanda, Chiyoda-ku, Tokyo  
Tel: +81 (0) 3-3861-8231  
Fax: +81 (0) 3-3861-8253

**Germany:** +49 (0) 89 4623 17-0  
**Italy:** + 39 0 2 57603050  
**UK:** +44 (0) 20 8204 8142

