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**Product Name :**

Iron Sulfide

**Product Code :**

SCI-735/323

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## Description :

**Iron Sulfide** (Product Code: SCI-735/323) is an analytical reagent grade iron(II) sulfide used to generate hydrogen sulfide gas with dilute acid for qualitative analysis and gas-chemistry lessons in school and college laboratories. It comes as a 100 g pack with its MSDS and doubles as a reference sample of the compound formed when iron and sulfur are heated together. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, a chemistry lab instruments supplier that also stocks reagents like this one.

## Specifications

| Parameter     | Detail                                                                                                                        |
|---------------|-------------------------------------------------------------------------------------------------------------------------------|
| Grade         | Analytical reagent                                                                                                            |
| Pack capacity | 100 g                                                                                                                         |
| MSDS          | Supplied with the product                                                                                                     |
| Shelf life    | Shelf life depends on the chemical, its grade and storage conditions; ask us for the expiry date of the batch you are quoted. |
| Product code  | SCI-735/323                                                                                                                   |
| Supplied by   | Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India                                                                |

## What Is Iron Sulfide Used For?

Iron(II) sulfide reacts with dilute hydrochloric or sulfuric acid to release hydrogen sulfide, the gas traditionally used in qualitative salt analysis to precipitate metal sulfides from acidic and ammoniacal solutions. It is the usual charge for a Kipp's apparatus or a simple test-tube gas generator, and the gas is identified by the black stain it leaves on moist lead acetate paper.

Hydrogen sulfide is highly toxic, and its rotten-egg smell cannot be relied on because the gas quickly dulls the sense of smell, so generate only small amounts inside a fume cupboard and close the generator after use. Students can also compare this sample with the product of their own iron and sulfur heating experiment: with dilute acid the compound gives hydrogen sulfide, whereas the unheated mixture gives mostly hydrogen from the free iron.

## What to Specify When Ordering

- The number of 100 g packs each laboratory needs.
- Whether this pack suits your gas generator, or whether the separately listed Ferrous Sulphide sticks fit your apparatus better.
- Companion reagents such as dilute hydrochloric acid and lead acetate for the same enquiry.

## Supplier

Jain Scientific Equipments Private Limited, known by its trading name ScienceLab, supplies Iron Sulfide from Ambala in 100 g packs with the MSDS for analysis teaching in schools and colleges. It can be purchased from various dealers and distributors. For more information, please contact us. We have further details on our website.

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