

Flaw-Guide Developers

For Liquid Penetrant Testing

Grade-GP : Suitable for all engineering components, welding and structures.

Grade NP : Approved by NPCIL for Nuclear & Special Engineering Components

Grade SP : Formulated to meet specific customer requirements for all components

Grade P : Powder Developer for application with all Fluorescent Penetrants

General Description

Flaw Guide Developers of Grades GP/NP/SP are ready to use suspension of extremely fine white inert inorganic powders blended in suitable non halogenated volatile solvents with some special additives which provides uniform and excellent white contrasting background to obtain highest sensitivity. These Developers are suitable for use with all types of Flaw Guide Red & Fluorescent Penetrants of the same family. Solvent suspendible developers are to be applied by spraying either by using self spraying aerosol cans or by using suitable spray gun with compressed air. The uniform and thin coating gives the best results during inspection. The developer particles have tendency to settle down after long standing in the supplied packing and hence require to re-disperse prior to use by moderately shaking the aerosol can. In case of Bulk packing, it is necessary to mix the settled Developer powder thoroughly to obtain spraying consistency.

Flaw Guide Developer-P is bright white, extremely fine, low density free flowing powder most suitable to use with all types of Water Washable, Solvent Clean type and Post emulsifiable Flaw Guide Fluorescent Penetrants. The powder developer can be applied suitably by dusting, spraying or even by dipping the components in the developer powder

Typical Properties

1. Extremely fine particles give uniform & Bright white non fluorescent background to provide excellent contrast. Very High area coverage and hence extremely cost effective.
2. The Halogens & Sulphur contents are controlled within acceptable limits of specifications
3. Uniform and thin coating for optimum results during inspection
4. Solvent suspendible Developers have well controlled drying time, within the specifications limit, to increase blotting of penetrant from the defects.
5. Non Corrosive to all the metals-Operator friendly - easy to use and remove after application.
6. Meet the requirements of most of the international specifications for Penetrant Testing such as , ASME Sec. V, ASTM-E-165, IS 3685/12889, AMS 2644, ASTM E-1417, EN 571-1 etc.

Packing

Solvent Base Developers are Supplied in 350/500 ml. Capacity Aerosol Cans or in 1,5 & 20 Litre Bulk packing. Powder Developers are supplied in 1 /5 Kg. packings.