



IS 717:1998-Carbon Disulphide, Technical-Specification

Carbon Disulphide (CS₂) is a highly volatile, flammable, and toxic liquid commonly used as an industrial solvent and commercially manufactured by the reaction of sulphur with charcoal or Methane. Ethane, Propane and Propene are also used to a limited extent. It is highly flammable and one of the most toxic hazardous chemicals to handle. It is an excellent solvent for many organic compounds and readily dissolves sulphur, phosphorus, iodine, waxes, rubbers and resins, etc.

Good quality Carbon Disulphide (CS₂) is crucial to ensure its effectiveness and safety in industrial applications. The key quality parameters are Relative Density, Distillation Range, Residue on Evaporation, Acidity, Hydrogen Sulphide, Sulphur dioxide and other reducing substances content and Appearance. The test methods specified in IS 717:1998 ensures the product complies with the requirements of the key quality parameters. Furthermore, the standard specifies the precautions to be taken in handling of the product owing to its high flammability, volatility and toxicity.

IS 717:1998 also specifies the packing requirements along with the precautions to be taken during packing to prevent accident by fire and explosion. The standard also specifies for ensuring compliance with the requirements of the latest issue of Red Tariff issued by Indian Railway Conference Association (IRCA) and requirements laid down by the Chief Inspector of Explosives, Government of India, for packing, storage and transit of flammable liquids before using the containers for the storage and transport of the material. The marking requirement specified in the standard ensures proper identification of the product due to its flammable nature.