

## **IS 44:1991 Iron oxide pigments for paints – Specification (*second revision*) (with 1 Amendment)**

Iron oxide pigments are non-toxic, heat resistant, chemically stable, anti-rusting and can form different tones of colours. They are extensively used in outdoor paintings, including traffic paints.

In 1950, the standards for paints IS 44 for black oxide of iron, IS 45 manufactured red oxide of iron, IS 46 natural red oxide of iron, IS 47 ochre, IS 48 natural sienna (raw and burnt) and IS 49 natural umber (raw and burnt) were first issued. In 1969, all the above standards were amalgamated into IS 44.

It was subsequently revised in 1991, updating it in line with international practices. This standard prescribes the requirements, sampling and test methods of natural and synthetic iron oxide pigments. It specifies the grades and types of these pigments. The requirements including composition, volatile matter, residue on sieve, oil absorption, matter insoluble, *pH*, acidity, percent of iron and other chemicals.