

ABSTRACT

BLACK FINE PARTICULATE NEAR-INFRARED REFLECTIVE MATERIAL,
METHOD FOR MANUFACTURING SAME, AND USAGE FOR SAME

Provided is a black fine particulate near-infrared reflective material having exceptional hiding performance and coloring performance. A black fine particulate near-infrared reflective material which is a perovskite-type complex oxide containing at least an alkaline earth metal element, titanium element, and manganese element, wherein the black fine particulate near-infrared reflective material comprises microparticles in which the BET specific surface area of the powder body is within a range of 3.0-150 m²/g, the black fine particulate near-infrared reflective material having exceptional hiding performance and coloring performance. The Hunter L value, as an indicator of blackness, is 30 or less, and the reflectivity at a wavelength of 1200 nm, as an indicator of near-infrared reflective power, is 40% or above. The black fine particulate near-infrared reflective material is obtained by mixing an alkaline earth metal compound, a titanium compound, a manganese compound, and other materials in a wet grinding mill and firing the resulting mixture at a temperature of 800-1100°C.

Figure 2