

# Micronized Calcined Metal Oxide Pigments

## Applications




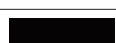

### TM type

- Inkjet inks
- Clear coat paints for metal materials such as stainless steel and aluminum
- Transparent glass paints
- Metallic paints
- Paints for plastics

## Characteristics

- It's a pigment with an exceptionally small average particle size of tens of nm (less than 1/10th of conventional pigments), achieved through our proprietary wet synthesis method.
- Aside from excellent properties such as chemical resistance, heat resistance, and weather fastness, TM series has brilliant colors, and high transparency, and superior durability compared to conventional calcined metal oxide pigments.
- These products are characterized by their optical properties in the field of metallic coating.
- TM Black 3552 has a unique bluish shade, distinct from carbon black, and it also has absorption properties in the near-infrared region.

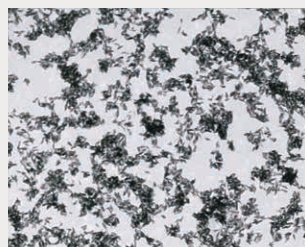
## Representative Products

Product name	Full shade	Composition	Characteristic
TM Yellow 8170		FeOOH	Micronized iron oxide yellow, Slightly dull yellow, Also applicable to ultraviolet absorber.
TM Red 8270		Fe <sub>2</sub> O <sub>3</sub>	Micronized iron oxide red, Slightly dusky-red, Also applicable to ultraviolet absorber.
TM Green 3331		Co[Al,Ti] <sub>2</sub> O <sub>4</sub>	Micronized metal oxide green pigment
TM Blue 3490E		CoAl <sub>2</sub> O <sub>4</sub>	Micronized metal oxide blue pigment, Reddish blue
TM Black 3550		Cu[Fe,Mn] <sub>2</sub> O <sub>4</sub>	Micronized metal oxide black pigment, Bluish black unlike carbon black
TM Black 3552		Cu[Fe,Mn] <sub>2</sub> O <sub>4</sub>	Micronized metal oxide black pigment, More bluish black than TM Black 3550, Characterized by the transparent color

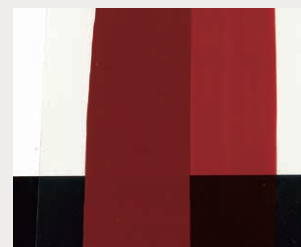
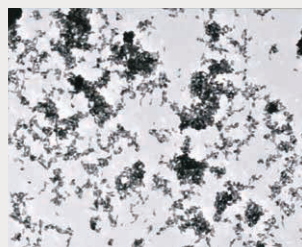
## Evaluation Results

### ■ Electron micrographs (60,000×) and proof prints on films

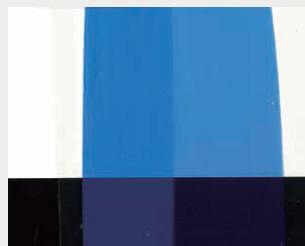
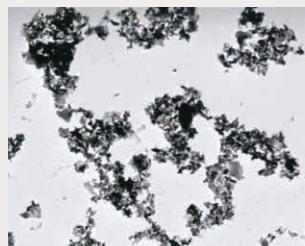
TM Yellow 8170



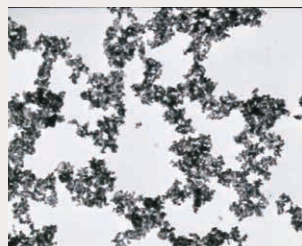
TM Red 8270



TM Blue 3490E



TM Black 3550



\*Color chart Left : Conventional product Right : TM series