>>**Entry Name: Iron manganese zinc oxide ($Fe_2(Mn,Zn)O_4$)**
Synonym(s): Manganese zinc ferrite

CAS Registry Number: 106218-90-0
Extra CAS Registry Numbers(s): 12645-49-7

$(Mn,Zn)Fe_2O_4$

Molecular Formula: $[Fe_2Mn_{0}.5O_4Zn_{0}.5]$
Molecular Weight: 235.856
Percentage Composition: Fe 47.36%; Mn 11.65%; O 27.13%; Zn 13.86%

Source/Synthesis: Prepd. from the constituent oxides
Use/Importance: Used in inductors, transformers, recording heads and magnetic amplifiers
Physical Description: Shows high magnetic permeability and high electrical resistivity

References:

Kirk-Othmer Encycl. Chem. Technol., 3rd edn., Wiley, 1978, **14**, 664, *(rev)*
Slick, P.I.*, Ferromagnetic Materials*, North-Holland, 1980, **2**, 189, *(rev)*