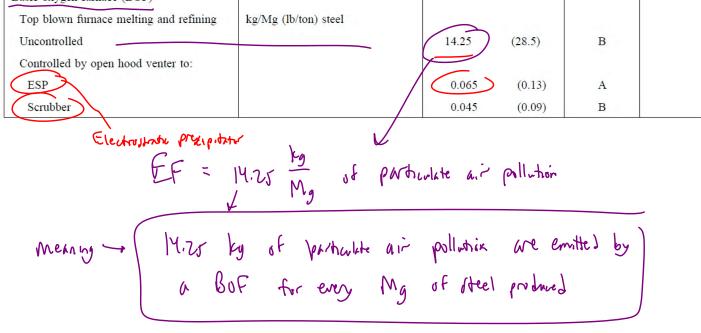


Example, Open Hearth Furnace (OHF) for steel production.

Source	Units	Emission Factor		EMISSION FACTOR RATING	Particle Size Data
Open hearth furnace					
Melting and refining	kg/Mg (lb/ton) steel				
Uncontrolled		10.55	(21.1)	D	Yes
Controlled by ESP		0.14	(0.28)	D	Yes
Roof monitor		0.084	(0.168)	С	

Example, Basic Oxygen Furnace (BOF) for steel production.

Basic oxygen furnace (BOF)



Example: Emission Factors

Given: A steel mill has an open hearth furnace with which it does melting and refining. The furnace refines about 8 tons of steel per hour on average. (ab)

To do: Estimate the uncontrolled emission rate of particles in kg/hr.

Solution: First we look up the EF of particle emissions in an open hearth furnace: EF = 10.55 kg/Mg.

This is a typical example of how to use EFs