LATENT HEAT LOSSES (approximation)

$$P = \left(\frac{\%CO}{\%CO_2 + \%CO} \right) \frac{A}{B} \ (23780)$$

P = loss in %
A = % of carbon by weight in fuel
B = Nett calorific value of fuel in kJ/kg

This formula can be further simplified value for $\frac{A}{B}$ (23780)

	A in %	B in kJ/kg.	A/B (23780)
Heavy fuel oil	86	40 200	50.88
Light fuel oil	86	42 700	47.89
Dutch natural Gas	57	38 260	35.41
Coke-oven Gas	35.3	35 660	23.53
Coal	85	29 300	68.97

Example : combustion of heavy fuel oil with 1 % CO and 13 % CO_2

$$p = \left(\frac{1}{13+1} \right) 50.88 = 3.63 \text{ \% loss.}$$