

ERRATA

Erratum: “Studying Flame Combustion of Coal–Water Slurries in the Furnaces of Power-Generating Boilers” [Thermal Engineering 59, 439 (2012)]

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Calculated characteristics of the flame and combustion products

Parameter	Kuznetsk coal, Grades G and D				Kavak coal				
	TPE-214 boiler (D_{nom})		PK-40 boiler (D_{nom})		TP-35 boiler ($0.5 D_{nom}$)				
	Pul-ver-ized coal	Type of CWS	Pul-ver-ized coal	Type of CWS	Pul-ver-ized coal	Type of CWS	1	2	
Lower heating value of fuel per working mass Q_f^l , kJ/kg	23000	15000	23000	15000	20000	10500	13125		
Moisture content per working mass W^r , %	10	40	10	40	18	50	40		
Maximal size of particles in fuel R_{max} , μm	350	40	350	40	350	40	3	3	3
Length of ignition part, l_p , m	1.5	4.0	1.0	3.0	0.5	2.5	1.0	1.0	0.5
Maximal flame temperature T_f , K	1700	1490	1850	1650	1700	1450	1480	1500	1650
Temperature of combustion products in the furnace outlet port, K	1382	1411	1371	1353	1333	1400	1273	1243	1220
Flue gas temperature T_{fg} , K	403	415	413	421	416	439	423	423	418
Fuel burnout ratio at l_f	0.90	0.82	0.97	0.90	0.99	0.75	0.85	0.90	0.92
Fuel burnout ratio in the furnace outlet port, K	0.97	0.90	0.98	0.92	1.00	0.85	0.95	0.99	0.995
Heat loss with flue gases q_2 , %	5.50	6.65	6.60	7.00	6.0	11.00	9.90	9.30	8.8
Heat loss due to unburned carbon q_4 , %	1.5	3.0	1.0	2.5	0	5.5	2.1	1.5	0.3
Increase of heat losses with flue gases with respect to combustion of pulverized coal Δq_2 , %	–	1.15	1.10	1.50	1.20	2.70	1.60	1.0	0.5
Increase of heat losses due to unburned carbon with respect to combustion of pulverized coal Δq_4 , %	–	–	–	0.5	–	4.0	0	–	–
Flame support degree g , %	–	–	–	–	–	–	–	–	–
Kind of flame support fuel	–	–	–	–	–	10	Diesel fuel	–	Diesel fuel

Note: $A^d = 12\%$ for all kinds of fuel.