

Coal classification

Coal Types and Peat			Total Water Content (%)	Energy Content a.f.* (kJ/kg)	Volatiles d.a.f.** (%)	Vitrinite Reflection in oil (%)	
UNECE	USA (ASTM)	Germany (DIN)					
Peat	Peat	Torf					
Ortho-Lignite	Lignite	Weichbraunkohle	75	6,700			
Meta-Lignite		Mattbraunkohle	35	16,500		0.3	
Sub-bituminous Coal	Sub-bituminous Coal	Glanzbraunkohle	25	19,000		0.45	
Bituminous Coal		High Volatile Bituminous Coal	Flammkohle	10	25,000	45	0.65
	Gasflammkohle				40	0.75	
	Gaskohle				35	1.0	
	Medium Volatile Bituminous Coal	Fettkohle			36,000	28	1.2
	Low Volatile Bituminous Coal	Eßkohle			36,000	19	1.6
Anthracite	Semi-Anthracite	Magerkohle			14	1.9	
	Anthracite	Anthrazit	3	36,000	10	2.2	

* a.f. = ash-free

** d.a.f. = dry, ash-free

UNECE: Ortho-Lignite up to 15,000 kJ/kg

Meta-Lignite up to 20,000 kJ/kg

Sub-bituminous Coal up to 24,000 kJ/kg

Bituminous Coal up to 2% average Vitrinite Reflection

USA: Lignite up to 19,300 kJ/kg

Source: BGR