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SOURCE Books and periodical as indicated.

CLASSIFICATION, CHARACTERISTICS, AND UTILIZATION OF USSR COALS

This report presents data, from 1946 - 1953 sources, on the classification, characteristics, and utilization of USSR coals. The first part of the report includes tables on the classification of Donbass, Kuzbass, and Karaganda coals, from a Russian book on coal-cleaning principles.

The second part consists of a table giving data from two sources, a German periodical and a Russian railroad dictionary, on types of coal found in the various USSR coal regions and their subdivisions. The two sources differ considerably in their coverage, the former being more complete. The railroad dictionary, however, gives geographical locations of some Kuzbass enterprises and gives subdivisions of Moscow basin coal by sizes.

Numbers in parentheses refer to appended sources.]

I. DONBASS, KUZBASS, AND KARAGANDA COALS

Bituminous coals of the Donbass are divided into six classes depending on their content of volatile substances, as is shown in the following table:

[Redacted Table]

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<u>Type of Coal</u>	<u>Designation</u>	<u>Volatile Sub- stance Content (%)</u>	<u>Coking Capacity</u>	<u>Free Hydro- gen Content (%)</u>	<u>Calorific Value (Cal)</u>	<u>Use</u>
Lean (toshchiy)	T	Less than 17	Does not cake	3.1-4.8	8,150	For fuel
Steam-caking (parovichno- spekayushchiyaya)	PS	12-18	Cakes slightly	3.5-4.9	8,650	Additive in coking in- dustry
Coking (koksovyy)	K	18-26	Cakes	3.5-5.0	8,650	Coking in- dustry
Steam-fat (parovichno- zhirnyy)	PZh	26-35	Cakes	3.0-5.0	8,500	Additive in coking in- dustry
Gas (gazovyy)	G	35-44	Cakes slightly	2.0-4.9	7,850	For fuel and chemical in- dustry
Long-flame (dlinnoplamennyy)	D	Less than 42	Does not cake	--	7,600	For fuel and chemical in- dustry

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Coals of the Kuzbass are classified according to their coking properties, as follows:

Type of Coal	Designation	Moisture (%)	Ash (%)	Sulfur (%)	Volatile Substances (%)	Calorific Value (Cal)	Coking Capacity	Use
Coking	K	2.5-4.5	8.0-9.0	.4-.5	20.0-25.0	8,000-8,500	Cakes well	For coking
	K ₂	2.5-4.5	7.5-8.5	.4-.5	17.0-20.0	8,300-8,650	Cakes	For coking
Slightly caking (slabo spekeyu-shchiyaya)	SS	2.5-5.0	4.0-10.0	.3-.5	11.0-33.0	8,200-8,500	Cakes slightly	Partly for coking, mainly for fuel
Steam-fat	PZh	3.5-5.0	6.0-12.5	.5-.8	--	8,100-8,600	Cakes slightly	Partly for coking, mainly for fuel
Lean	T	4.5-6.0	10.0-17.0	.7	6.5-7.0	8,400-8,500	Does not cake	For fuel

Karaganda coals are also classified according to their coking properties, as indicated in the following table:

Type of Coal	Designation	Volatile Substance Content (%)	Coking Capacity	Average Ash Content (%)	Use
Coking	K	27.0	Cakes	13.0	For coking after being cleaned
Steam-fat	PZh	24.0	Cakes	22.0	For coking after being cleaned
Steam-caking	PS	23.0	Cakes slightly	16.5	For fuel
Lignite (buryy)	B	40.0	Does not cake	14.5	For fuel

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The sulfur content of coal deposits varies considerably and does not depend on the type of coal. For Donbass coals, it ranges from one to seven percent, but, in the majority of cases, it is from 1.5 to 4.5 percent; for the Karaganda basin, the sulfur content of coal is from 0.5 to 1.2 percent, but, in some cases, it is as high as 2.5 to 3 percent; for the Kuzbass, the figures range from 0.3 to 1.0 percent.(1)



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II. TYPES OF COAL FOUND IN USSR COAL REGIONS

Source 2 Data		Source 3 Data	
<u>Region, Subdivision, or Enterprise</u>	<u>Type of Coal</u>	<u>Region, Subdivision, or Enterprise</u>	<u>Type of Coal</u>
Donbass	D G PZh T AP, AK (plita -- slab anthracite; krupnyy orekh -- large nut anthracite)	Donbass	D G PZh K PS T A
	AM, AS (melkiy orekh -- small nut anthracite; semyachko -- pea coal)		
	ASSh, ARSh, ASh (semyachko so shtybom -- pea coal with culm; ryadovoy antratsit so shtybom -- run-of-the-mine an- thracite with culm; shtyb -- culm)		
	PP ₂ , PP ₂ /Possibly parovichno-plamenny -- steam-flame/		
Kuzbass		Kuzbass	
Anzherskaya	PS	Leninugol' Trust (formerly Kol'chugino)	D G
Kemerovo	K, PS	Molotovugol' Trust (Osinovskiy Rayon)	PZh
Leninsk	G		

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Prokop'yevsk SS
Kiselevsk SS
Aralichevskiy T

Kemerovugol' [Trust]
Prokop'yevskugol' Trust K
Stalinugol' Trust
Kaganovichugol' Trust
(Kiselevskiy Rayon)
Kemerovugol' Trust PS
Anzherougol' Trust
Stalinugol' Trust
(Prokop'yevskiy Rayon)
Prokop'yevskugol' Trust SS
Kaganovichugol' Trust
Kuybyshevugol' Trust T

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Keraganda Basin PZh/PS
B
Moscow Basin B

Moscow Basin

BK
BO
BM
(meloch' --
fines)
BR

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Pechora Basin
Vorkuta PZh
Ukrainian SSR
Aleksandriya B

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Georgian SSR

Tkvarcheli	PZh
Tkibuli	G

Urals

Kizel	PZh
Bogoslovskiy	B
Volchansk	B
Yegorshino	A
Chelyabinsk	B
Ko-kino	B

Urals

Kizel	G/PZh
Bogoslovskiy	B
Yegorshino, Poltavskiy, and Bredinskii	A
Chelyabinsk	B

Central Asia

Lenger	B
Sulyukta	B
Kyzyl-Kiya	B
Kok-Yangak	D
Angara	B
/probably should be Angren/	

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West Siberia

Kansk B
Minusinsk D

East Siberia

Cheremshovo D
Gusinoye Ozero E
Raychikhinsk B

Primorskiy Krai

Artem E
Suchan PZh
Podgorodnenskiy T (2)

West Siberia (except Kuzbass)

Kansk B
Minusinsk D

Transbaykal

Chernovskiy B

Far East

Kividskiy and Raychikhinsk R
Artem B
Suchan PZh (3)

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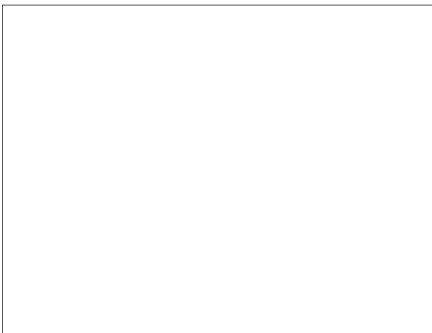
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SOURCES

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2. Hamburg, Erdcoel und Kohle, No 4, Apr 1953
3. Moscow, Kratkiy Tekhnicheskiy Zheleznodorozhnyy Slovar' (Short Technical Railroad Dictionary), Gosudarstvennoye Transportnoye Zheleznodorozhnoye Izdatel'stvo, 1946



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