

Pipeline Specifications

TransCanada and other pipeline gas quality tariff specifications



TransCanada Pipelines

Specs	GTN System	North Baja System	Canadian Mainline System	Alberta System	BC System	Foothills System
Hydrogen Sulphide	0.25 grains/Ccf ³	0.25 grains/Ccf ³	23 mg/m ³	23 mg/m ³	23 mg/m ³	23 mg/m ³
Total Sulphur	10 grains/Ccf ³	0.75 grains/Ccf ³	115 mg/m ³	115 mg/m ³	230 mg/m ³	230 mg/m ³
Carbon Dioxide	2% by volume	3% by volume	2% by volume	2% by volume	2% by volume	2% by volume
Oxygen	0.4% by volume	0.2% by volume	0.4% by volume	0.4% by volume	0.4% by volume	0.4% by volume
Nitrogen	Not specified	4% incl. CO ₂ , N ₂ , He, O ₂	Not specified	Not specified	Not specified	Not specified
Temperature	110°F	≤ 105°F	Max. 50°C	≤ 49°C	43.3°C	Not specified
Heating Value	995 BTU/ft ³	Min. 995 BTU/ft ³	36 MJ/m ³	36 MJ/m ³	36.94 MJ/m ³	36 MJ/m ³
Water	4 lbs/MMcf	7 lbs/MMcf	65 mg/m ³	65 mg/m ³	65 mg/m ³	65 mg/m ³
Hydrocarbon Dewpoint	15°F up to 800 psig	≤ 20°F, pressure ≤ 600 psig	-10°C at 5500kPa absolute	-10°C at opt. pressure	-10°C (100-1000psia)	-10°C at 5500 kPa

Canadian Pipelines

Specs	Alliance Canada	ATCO	TransGas	WEST COAST	TQM	GazMetro
Hydrogen Sulphide	23 mg/m ³	6 mg/m ³	6 mg/m ³	6 mg/m ³	23 mg/m ³	Not specified
Total Sulphur	115 mg/m ³	23 mg/m ³ total, 5 mg/m ³ mercaptan	23 mg/m ³ total, 6 mg/m ³ mercaptan	23 mg/m ³	115 mg/m ³	Not specified
Carbon Dioxide	2% by volume	2% by volume	2% by volume	2% by volume	2% by volume	Not specified
Oxygen	0.4% by volume	0.4% by volume	0.4% by volume	0.4% by volume	0.4% by volume	Not specified
Nitrogen	Not specified	Not specified	15 ml/m ³ each (nitric oxide & total oxides of nitrogen)	Not specified	Not specified	Not specified
Temperature	Max. 50°C	Max. 50°C	Max. 50°C	54°C	Max. 50°C	Not specified
Heating Value	Min. 36 MJ/m ³ , Max. 60 MJ/m ³	36 MJ/m ³	Max. 39, Min. 35 MJ/m ³	36 MJ/m ³	36 MJ/m ³	36 MJ/m ³
Water	65 mg/m ³	64 mg/m ³	65mg/m ³ at 101.325 kPa and 15°C	≤65 mg/m ³	65 mg/m ³	Not specified
Hydrocarbon Dewpoint	-10°C at opt. Pressure	-10°C at 5500 kPa	-10°C at 5500 kPa absolute	-9°C at del. pres.		Not specified

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US Pipelines

Specs	Alliance USA	Central PL Minnesota	GLGT	Iroquois	Kern River Transmission	Northern Border
Hydrogen Sulphide	1 grains/Ccf ³	23 mg/m ³	5.75 mg/m ³	23 mg/m ³	0.25 grains/Ccf ³	0.3 grains/Ccf ³
Total Sulphur	5 grains/Ccf ³	460 mg/m ³	460 mg/m ³	460 mg/m ³	0.75 grain/Ccf ³ 0.3 grains/Ccf ³ mercaptan	2 grains/Ccf ³ (0.3 mercaptan)
Carbon Dioxide	2% by volume	2% by volume	2% by volume	3% by volume	3% by volume incl. Nitrogen	2% by volume
Oxygen	0.4% by volume	Not specified	1% by volume	0.2% by volume	0.2% by volume	0.4% by volume
Nitrogen	Not specified	Not specified	3% by volume	4% incl. CO ₂	4% incl. O ₂ , N ₂ , CO ₂ & other inerts	Not specified
Temperature	≤ 122°F	≤ 120°F	Max. 120°F, Min. 20°F	≤ 120°F	Max. 120°F, Min. 40°F	Not specified
Heating Value	962 BTU/ft ³	900 BTU/ft ³	Min. 967 BTU/ft ³ Max. 1069 BTU/ft ³	950 BTU/ft ³	970 BTU/ft ³	967 BTU/ft ³
Water	4 lbs/MMcf	64.4 mg/m ³	≤ 65 mg/m ³	65 mg/m ³	7 lbs/MMcf	4 lbs/MMcf
Hydrocarbon Dewpoint	14°F at opt. pres.	Not specified	Not specified	Not specified	15°C up to 800 psig	-5°F (800psia) -10°F (1000) 18°F (1100)

Specs	NWP	PNGTS	SOCAL	Tennessee GP	Viking
Hydrogen Sulphide	0.25 grains/Ccf ³	0.25 grains/Ccf ³	0.25 grains/Ccf ³	0.25 grains/Ccf ³	5.75 mg/m ³
Total Sulphur	20 grains/Ccf ³	20 grains/Ccf ³	0.75 grains/Ccf ³ (0.3 mercaptan)	20 grains/Ccf ³	460 mg/m ³
Carbon Dioxide	2% by volume	3% by volume	3% by volume	3% by volume	3% by volume
Oxygen	0.2% by volume	0.2% by volume	0.2% by volume	0.2% by volume	0.2% by volume
Nitrogen	3% incl. O ₂ , CO ₂	4% incl. CO ₂	4% incl. O ₂ , and CO ₂	4% incl. CO ₂	4% incl. CO ₂
Temperature	120°F Max.	120°F	Max. 105°F, Min. 50°F	≤ 120°F	120°F
Heating Value	985 BTU/ft ³	Min. 967 BTU/ft ³ Max. 1100 BTU/ft ³	Min. 970 BTU/ft ³ Max. 1150 BTU/ft ³	Min. 967 BTU/ft ³ Max. 1100 BTU/ft ³	Min. 967 BTU/ft ³ Max. 1100 BTU/ft ³
Water	7 lbs/MMcf	7 lbs/MMcf	7 lbs/MMcf	7 lbs/MMcf	113.75mg/m ³
Hydrocarbon Dewpoint	15°F (100-1000psi)	Not specified	45°F (deliver 400-800psi)	Not specified	Not specified

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