



**DAKOTA
GASIFICATION
COMPANY**

A BASIN ELECTRIC POWER
COOPERATIVE SUBSIDIARY
420 COUNTY ROAD 26
BEULAH, NORTH DAKOTA 58523
PHONE: 701-873-2100

**DAKOTA GASIFICATION COMPANY
Tar Oil**

<u>Property</u>	<u>Test Method</u>	<u>Units</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Typical (2018)</u>
Sulfur	Similar to ASTM D6376	Wt%	---	0.8	0.6
Ash	ASTM D482	Wt%	---	0.10	0.07
Water	ASTM D4377	Wt%	---	0.2	0.1
Specific Gravity	ASTM D4052	@60°F	1.0	1.1	1.05
Viscosity	ASTM D446	CST@122°F	---	60	23
Flash Point	ASTM D3828	°F	200	---	208
GCV	ASTM D240	BTU	16200	---	16480
API	Calculation		---	5	3.6
Carbon	ASTM D5291	Wt%	83	---	
Conradson Carbon	ASTM D189	Wt%	---	6	
True Vapor Pressure (Dewatered)	ASTM D2879	Kpa		0.09@100°F	
H2S Headspace	ASTM D5705	PPMV		10	7
TAN	ASTM D664	mg KOH/g		5	3.2

Limit values are based on customer specifications.