



IRON OAK

ENERGY SOLUTIONS

PRODUCT SHEET



NORTHERN WHITE SAND

- Technologically advanced mine & processing facilities
- Multiple products sizes
- Access to Class 1 Railroads
- Advanced terminal network in major oil & natural gas shale plays

PLANT LOCATIONS



~6M TPY



~3M TPY



500K TPY

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Per API STD 19C procedures

MESH SIZE	PERCENT IN-SIZE	KRUMBEIN SPHERICITY	KRUMBEIN ROUNDNESS	APPARENT DENSITY (G/CM ³)	BULK DENSITY LB/FT ³ (LB/FT ³)	ACID SOLUBILITY	TURBIDITY (FTU)	K-VALUE CRUSH STRENGTH
20/40	>90%	0.7	0.7	2.65	>90.0	<3.0%	<250	7K
30/50	>90%	0.7	0.7	2.65	>90.0	<3.0%	<250	8K
40/70	>90%	0.7	0.7	2.65	>90.0	<3.0%	<250	9K
100 Mesh	>90%	0.7	0.7	2.65	>90.0	<3.0%	<250	11K