

WEST CUMBRIA MINING HIGH VOLATILE HARD COKING COAL INDICATIVE SPECIFICATION (Main Band) 2019 ISO STANDARDS

PROXIMATE ANALYSIS (air dried)	
Inherent Moisture	2.5%
Ash	<4%
Volatile Matter	32.0%
Fixed Carbon	>61%

S, P & HGI	
Total Sulphur (air dried)	<1.4%
Phosphorus (in coal)	<0.005%
Hardgrove Grindability Index	61

COKING PROPERTIES		
Ave. Free Swelling Index	8.1	
Gieseler Fluidity		
Initial Softening Temp	407°C	
Max Fluidity Temp	441°C	
Solidification Temp	471°C	
Plastic Range	64°C	
Max Fluidity	30,000 ddpm	
Audibert Arnu Dilatation		
Initial Softening Temp	362°C	
Max Contraction Temp	399°C	
Max Dilatation Temp	460°C	
Max Contraction	24%	
Max Dilatation	202%	

PETROGRAPHY	
Mean Max Vitrinite Reflectance	1.02%
Vitrinite	72%

ASH ANALYSIS (dry basis)	
SiO ₂	36.15%
Al ₂ O ₃	29.44%
Fe ₂ O ₃	17.18%
CaO	6.52%
MgO	1.04%
Na ₂ O	1.14%
K ₂ O	0.56%
TiO ₂	0.87%
Mn ₃ O ₄	0.28%
SO ₃	5.38%
P ₂ O ₅	0.35%