



Quality of each mineral

HARD GILSONITE

PARAMETER	RESULT	ASTM STANDARD
WATER CONTENT %	< 2,0	ASTM D 95
ASHES %	< 6,0	ASTM D 3174
SPECIFIC GRAVITY	1,20	ASTM D 2015/96
SULFUR %	< 0,8	ASTM D 3177/89 B
VOLATILE MATERIAL %	< 10,0	ASTM 3175-01
FIXED CARBON %	>65,0	ASTM D 3172
T. OF SOFTENING (°C)	250 to 450	ASTM D-92
SOLUBILITY IN TRICHLORETHYLENE %	>90	ASTM D 2795
SOLUBILITY IN CARBON SULFUR%	>90	ASTM D 3174
FLASH POINT, COC (°C)	450 to 550	ASTM D 3302-02
GRANULOMETRY	Ground malla 200 or malla 100 or Granulated in sizes that customer require. Packed bags of 22,7 Kgr, 25 or 50 Kgr until big bag of 1.000 Kgr	100%

SOFT GILSONITE

PARAMETER	RESULT	ASTM STANDARD
WATER CONTENT %	< 3,0	ASTM D 95
ASHES %	< 6,0	ASTM D 3174
SPECIFIC GRAVITY	1,60	ASTM D 2015/96
SULFUR %	< 5,5	ASTM D 3177/89 B
VOLATILE MATERIAL %	< 60,0	ASTM 3175-01
FIXED CARBON %	>30,0	ASTM D 3172
T. OF SOFTENING (°C)	150 to 250	ASTM D-92
SOLUBILITY IN TRICHLORETHYLENE %	>98	ASTM D 2795
SOLUBILITY IN CARBON SULFUR%	>98	ASTM D 3174
FLASH POINT, COC (°C)	300 to 550	ASTM D 3302-02
GRANULOMETRY	Ground malla 200 or malla 100 or Granulated in sizes that customer require. Packed bags of 22,7 Kgr, 25 or 50 Kgr until big bag of 1.000 Kgr	100%



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THERMAL COAL

PARAMETER	RESULT	ASTM STANDARD
WATER CONTENT %	< 3,0	ASTM D 3302M-15
ASHES %	< 9,0	ASTM D 3174-12
VOLATILE MATERIAL %	< 40,0	ASTM 3175-11
FIXED CARBON %	>50,0	ASTM D 3172-13
SULFUR %	< 0,9	ASTM D 4239-14e2
HEAT POWER Btu/lb	>13.000	ASTM D 5865-13
HEAT POWER Kcal/Kgr	>7.200	ASTM D 5865-13
BATHING INDEX, FSI	< 1,0	ASTM D 720
GRINDING INDEX, HGI	50 to 60	
GRANULOMETRY	Ground malla 200 or malla 100 or Granulated in sizes that customer require. Packed bags of 22,7 Kgr, 25 or 50 Kgr until big bag of 1.000 Kgr	100%

ANTHRACITE

PARAMETER	RESULT	ASTM STANDARD
WATER CONTENT %	< 3,0	ASTM D 3302M-15
ASHES %	< 5,0	ASTM D 7582-15
VOLATILE MATERIAL %	< 5,0	ASTM 3175-11
FIXED CARBON %	>85,0	ASTM D 3172-07a
SULFUR %	< 1,0	ASTM D 4239-14e2
HEAT POWER Btu/lb	>13.000	ASTM D 5865-13
HEAT POWER Kcal/Kgr	>7.200	ASTM D 5865-13
BATHING INDEX, FSI	< 1,0	ASTM D 720
GRANULOMETRY	Ground malla 200 or malla 100 or Granulated in sizes that customer require. Packed bags of 22,7 Kgr, 25 or 50 Kgr until big bag of 1.000 Kgr	100%



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COBIZABLE COAL– LOW VOLATILE

PARAMETER	RESULT	ASTM STANDARD
WATER CONTENT %	< 2,0	ASTM D 3302M-15
ASHES %	< 9,0	ASTM D 3174-12
VOLATILE MATERIAL %	< 22,0	ASTM 3175-11
FIXED CARBON %	>70,0	ASTM D 3172-13
SULFUR %	< 1,4	ASTM D 4239-14e2
HEAT POWER Btu/lb	>14.300	ASTM D 5865-13
HEAT POWER Kcal/Kgr	>7.950	ASTM D 5865-13
BATHING INDEX, FSI	> 8,0	ASTM D 720
GRANULOMETRY	As it leaves the mine – a rajón, or in granulometry required for the client.	100%

COBIZABLE COAL– HIGH VOLATILE

PARAMETER	RESULT	ASTM STANDARD
WATER CONTENT %	< 2,0	ASTM D 3302M-15
ASHES %	< 7,0	ASTM D 3174-12
VOLATILE MATERIAL %	28 a 33	ASTM 3175-11
FIXED CARBON %	> 64,0	ASTM D 3172-13
SULFUR %	< 1,0	ASTM D 4239-14e2
HEAT POWER Btu/lb	>14.800	ASTM D 5865-13
HEAT POWER Kcal/Kgr	>8.250	ASTM D 5865-13
BATHING INDEX, FSI	> 8,0	ASTM D 720
GRANULOMETRY	As it leaves the mine – a rajón, or in granulometry required for the client.	100%