	Volatile Matter (VM) AD	Crucible Swell Number (CSN)	Ash (A) AD	Sulfur (S) AD	Phosphorous (P)	Total Moisture (TM)	Inherent Moisture (IM) AD	Roga	Vitrinite		Gieseler Fluidity (ddpm)	Fixed Carbon (FC) AD
Hard Coking Coal Parameters (PLATTS)	***Min 17.5% Max 34.0%***	***Min 5.5***	***Max 10.5%***	***Max 1%***	***Max 0.08%***	***Max 10.5%***	***Max 2%***		***Min 48%***	***Min 0.90% Max 1.65%***	***Min 100 ddpm***	
THE DUEL - Composite												
Duel 01/04-05 (F1.45)	27.5%	9	13.1%*	0.8%	0.040%		0.7%	56 - 75	75.3%	1.14%	4069	58.7%
Duel 01/06-08 (F1.45)	27.3%	9	13.4%*	0.8%	0.030%		0.7%	77 - 84	85.5%	1.17%	1882	58.7%
Duel 01/09-10 (F1.45)	28.3%	9	14.7%*	1.09%	0.010%		0.7%	76 - 88	85.8%	1.06%	25792	56.5%
THE DUEL - Potential 9.9% Ash Cutoff Products												
Duel 01/01	19.9%	8.5	9.9%	0.34%	0.258%		0.9%	53				69.3%
Duel 01/02	25.6%	9	9.9%	0.42%	0.114%		0.9%	71				63.6%
Duel 01/05	26.9%	9	9.9%	0.94%	0.030%		0.8%	70				62.4%
Duel 01/06	23.0%	2.5	9.9%	0.89%	0.030%		0.9%	18				66.2%
QUEENSLAND HCC												
Anglo Coal Australia - German Creek	19%	9	9%	0.70%		9%	2%				200	By diff
BM Alliance - Gregory	34%	9	6.5%	0.60%		8.5%	2%				7500	57.5%
BM Alliance - Norwich Park	17.8%	9	9.9%	0.65%		10%	1%				100	71.3%
BM Alliance - South Blackwater	28.9%	7	6.2%	0.39%		9%	2%				1300	62.9%
Gloucester Coal	34%	8	11%	1.00%		9%	1.5%				>5000	52.5%
Glennies Creek	39%	6	8.5%	0.65%		9%	2%				7500	50.0%
Rio Tinto Coal Australia - Kestrel	33.5%	9	6.5%	0.65%		8%	2%				>10000	58.0%
SOUTH AFRICAN HCC												
Exxaro - Tshikondeni	22.5%	9	12.3%	0.85%			0.8%					64.4%
Coal of Africa - Makhado (Middle Lower)	30.3%	9	12.1%	1.2%			0.9%	91	82.6%	1.01%	488	56.7%
Coal of Africa - Makhado (Bottom Upper)	29.2%	9	11.9%	0.8%			1.5%	89	77.9%	1.01%	485	57.4%
Coal of Africa - Makhado (Bottom Lower)	30.3%	9	12.3%	0.9%			0.8%	90	79.3%	0.98%	493	56.6%
MOZAMBIQUE HCC												
Rio Tinto (Riversdale) - Benga	19% - 28%	9	10.5%	0.6% - 1.2%	0.01% - 0.13%	8	0.3% - 0.7%		75% - 85%	1.10% - 1.60%	>3	60% - 68%
Beacon Hill Resources - Minas Moatize	17.3%	9	9.5%	0.99%	0.12%	8	0.85%	37	85.0%	1.65%	0-20	71.3%
Vale - Moatize	21%	9	10.5%	1.0%	0.085%	8	0.81%		81.1%	1.20% - 1.26%	500	62.2%
SOUTH AFRICAN SEMI-SOFT												
Coal of Africa - Vele (Bottom Lower- West)	36.5%	8.5	12.8%	1.0%	0.008%		1.1%	87	83.4%	0.77%	6515	55% (Ave)
Universal Coal - Berenice	36.0%	7	11.7%	1.0%	0.009%		0.9% - 2.0%	85	85.0%		>20000	50.2%

Standard
Problematic
Require blending

*** Sample taken at a Float of 1.45 (not 1.40). Refer to *THE DUEL - Potential 9.9% Ash Cutoff Products***