

## Process Conditions -- Metric Units

	wt%					
	Flare gas	Steam	Fuel Gas	Fuel Off-gas 1	Fuel Off-gas 2	Fuel Off-gas 3
METHANE			92.39			
ETHANE			5.02		1.70	
PROPANE	20.00		1.76	19.62	24.76	18.96
BUTANE			0.37			
PENTANE						
ISOBUTANE			0.35			
ISOPENTANE			0.02			
HEXANE						
HEPTANE						
OCTANE						
NONANE						
DECANE						
DODECANE						
TRIDECANE						
CYCLOPENTANE						
ETHYLENE					11.90	0.05
PROPYLENE	80.00			80.13	59.13	80.75
BUTYLENE						
ACETYLENE						
BENZENE						
TOLUENE						
XYLENE						
CARBON MONOXIDE						
CARBON DIOXIDE						
HYDROGEN SULFIDE						
SULFUR DIOXIDE						
AMMONIA						
AIR						
HYDROGEN					2.27	
OXYGEN						
NITROGEN			0.09			
WATER		100.00		0.25	0.24	0.24
BUTADIENE						
METHANOL						
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
Mol. Wt.	42.48	18.02	17.60	42.42	39.74	42.40
L. H. V. (kcal/kg)	11,000	0	9,282	20,734	19,537	20,725
Temperature (Deg. C):	40.0	200.0	5.0	10.0	10.0	10.0
Avail. Static Pressure (barg) :	0.306	10.80	1.055	3.6	3.569	4.078
Flow Rate (kg/hr):	182,000			991	991	986
Smokeless Rate (kg/hr):	54,600					

Note.1) Steam conditions are based on the bottom of stack.

Note.2) Although it is not specified in the above process conditions table, Pilot Burner fuel gas can be used as LPG (base on propane 100% and ambient temperature). Please see below pilot gas consumption and pressure.

- Pilot Gas Consumption (when use LPG) : 36.29SCFH at 8psig (0.98 Nm<sup>3</sup>/hr at 0.56barg) - per Pilot Burner

## Process Conditions -- Metric Units

	Mol %					
	Saturated	Superheated				
METHANE						
ETHANE						
PROPANE						
BUTANE						
PENTANE						
HEXANE						
HEPTANE						
OCTANE						
NONANE						
DECANE						
DODECANE						
TRIDECANE						
CYCLOPENTANE						
ETHYLENE						
PROPYLENE						
BUTYLENE						
ACETYLENE						
BENZENE						
TOLUENE						
XYLENE						
CARBON MONOXIDE						
CARBON DIOXIDE						
HYDROGEN SULFIDE						
SULFUR DIOXIDE						
AMMONIA						
AIR						
HYDROGEN						
OXYGEN						
NITROGEN						
WATER	100.00	100.00				
BUTADIENE						
METHANOL						
<b>Total</b>	<b>100</b>	<b>100</b>				
Mol. Wt.	18.02	18.02				
L. H. V. (kcal/nm <sup>3</sup> ):	0	0				
Temperature (Deg. C):	200.0	363.7				
Avail. Static Pressure ( <i>barg</i> ) :	10.799	10.60				

Note.1) Steam conditions are based on the bottom of stack.