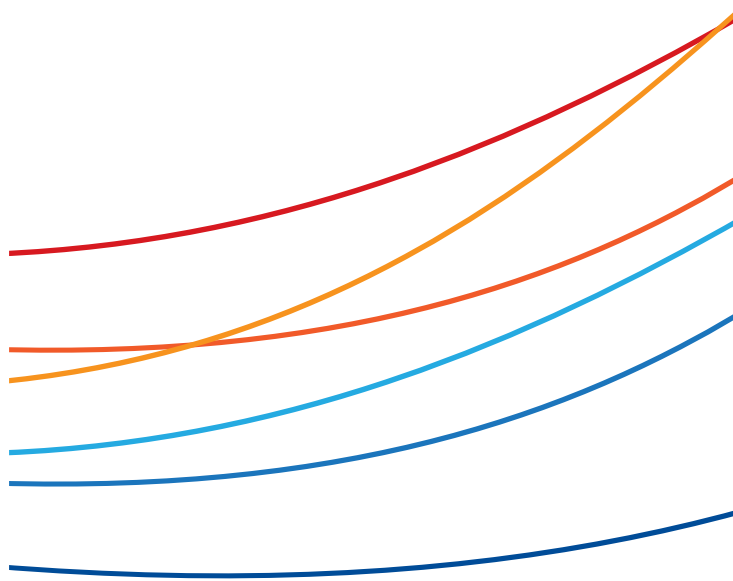


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Olefin Products

Product Capacity of Olefin plant

Products	Production Capacity 1000 T/Y	Saleable Products 1000 T/Y	Applications
Ethylene	1345	220	Polyethylene, PVC
Propylene	305	20	Polypropylene
C ₄ cut	265		Feed for downstream plant
Pyrolysis gasoline	216	220	To Aromatic Plant
Fuel Oil	38	24	Feed for downstream plant
Hydrogen	1.5		For hydrogenation
Methane	3.9		Fuel
Total	2174.4		

Ethylene

> Olefin made via Techinp Technology



Is a simple olefin, the chemical formula is C_2H_4 , has a prominent role in the petrochemical industry. It is colorless flammable gas.

COMPONENT	SPECIFICATION	
Ethylene	99.9	vol % min
Methane + Ethane	1000	ppm vol max
Ethane	500	ppm vol max
Acetylene	5	ppm vol max
C3 & Higher	10	ppm vol max
Carbon Monoxide	2	ppm vol max
Carbon Dioxide	5	ppm vol max
Water	10	ppm vol max
Oxygen	5	ppm vol max
Hydrogen	10	ppm vol max
Nitrogen	100	ppm vol max
Oxygenated Compounds	10	ppm vol max
Basic Nitrogen Compound Calculated as NH ₃	1	ppm vol max
Total sulphur	2	mg/kg max
Methanol	0.5	ppm vol max
Total Combined Nitrogen	0.2	ppm vol max
COS	0.02	ppm vol max
Mercaptans	0.3	ppm vol max

Propylene

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Also called propane, a colorless, flammable, gaseous hydrocarbon, C_3H_6 , obtained from low molecular weight constituents of petroleum.

COMPONENT	Unit	SPECIFICATION
Propylene	% vol	min 99.8
Propane	% vol	max 0.2 %
Hydrogen	ppm vol	max 5
Ethylene	ppm vol	max 1
Butenes	ppm vol	max 1
Pentenes	ppm vol	max 1
Non-condensables	ppm vol	max 20
Ethane	ppm vol	max 20
Butane-pentanes	ppm vol	max 10
C6-C12 Hydrocarbons	ppm vol	max 1
Acetylene	ppm vol	max 1
Methyl-acetylene	ppm vol	max 1
Propadiene	ppm vol	max 1
Butadiene	ppm vol	max 10
Oxygen	ppm vol	max 2
Carbon Monoxide	ppm vol	max 0.03
Carbon Dioxide	ppm vol	max 2
COS	ppm vol	max 0.02
Total sulphur	ppm wt	max 1
Methanol	ppm vol	max 5
Isopropanol	ppm vol	max 5
Water	ppm wt	max 2
Arsine	ppm vol	max 0.01
Phosphine	ppm vol	max 0.01
Ammonia	ppm wt	max 1
Cyclopentadiene	ppm vol	max 0.05

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Pyrolysis gasoline

Pyrolysis gasoline, is a naphtha-range product with a high aromatics content used either for gasoline blending or as a feed stock for aromatics plants.

SPECIFICATION	Unit	Spec.	Analysis Method
Aromatics	wt%	max 50	
Benzene	wt%	max 30	
Toluene	wt%	.....
Density at 15.6C	gr/cm3	0.8-0.84	ASTM D4052
FBP	.c	max 225	ASTM D86
IBP	.c	min 33	ASTM D86
R.V.P	kpa	40-65	ASTM D6378
Paraffines	wt%	max 21	
Isoparaffines	wt%	max 21	
Naphtenes	wt%	max 2	
Olefins	wt%	max 20	
Total Sulfur	mg/kg	350	ASTM D5453
Gum Content	mg/100ml	max 50	
Lead Content	ppb	max 30	
Water Content		.....	ASTM E203
Unknown	wt%	.....
Residue	wt%	.....	ASTM D86
%5Recovery	.c	min 45	ASTM D86
10%Recovery	.c	.....	ASTM D86
20%Recovery	.c	.....	ASTM D86
30%Recovery	.c	.....	ASTM D86
40%Recovery	.c	.....	ASTM D86
50%Recovery	.c	.....	ASTM D86
60%Recovery	.c	.....	ASTM D86
70%Recovery	.c	.....	ASTM D86
80%Recovery	.c	.....	ASTM D86
90%Recovery	.c	min 175	ASTM D86
Recovery	.c	.....	ASTM D86
Color Sybolt		-16	

C4 Cut

➤ *Olefin made via Techinp Tecnology*



C4 Cut produced in Ethylene production plants by steam cracking of naphtha. It is a mixture of C₄ hydrocarbons mainly 1,3- butadiens, Iso Butene, Butane.

COMPONENT	SPECITICATION
1,3-Butadiene	45.1 %wt
Methyl-Acetylene	0.12 %wt
Propadiene	0.02 %wt
Propylene	0.1 %wt
Propane	0.03 %wt
Vinyl-Acetylene	1.13 %wt
i-Butene	19.2 %wt
1 Butene	9.16 %wt
Cis2-Butene	1.86 %wt
Trans2-Butene	2.58 %wt
i-Butane	3.94 %wt
n-Butane	16.56 %wt
C5-diolefins	0.06 %wt
Pentenes	0.1 %wt
Pentanes	0.02 %wt
2-methyl-butene	0.03 %wt
Total	100.01 %wt

Fuel Oil

> Olefin made via Techinp Tecnology



Fuel oil product is a heavy hydrocarbon cut rich (poly) aromatic components.

TEST/COMPOSITION	VALUE
Flash point	>60°C
Viscosity	approx. >40 cP at 80°C

