



Chevron Phillips Chemical Company Issued Sales Specification

Name of Product

DIESEL SECONDARY REFERENCE FUEL U-30

Revision Date

5/24/2017

Chevron Phillips Chemical Company LP
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Property	Round Robin Results ⁽¹⁾	Test Method
Specific Gravity at 60/60 °F	0.8171	Calculated
API Gravity	41.7	ASTM D 4052
Sulfur, ppm	13.2	ASTM D 5453, 2622, 7039
Flash Point, °F	112.89	ASTM D 93
Viscosity at 40 °C, cSt	1.770	ASTM D 445, 7042
Aniline Point, °C	59.09	ASTM D 611
Peroxides, mg/kg	None Detected	ASTM D 3703
Distillation Range at 760 mmHg, °F		ASTM D 86
Initial Boiling Point	294.8	
10 %	359.2	
50 %	414.5	
90 %	549.3	
End Point	601.0	
Recovery, %	98.2	
Residue, %	1.3	
Loss, %	0.6	
Cetane Number	20.32	ASTM D 613
Hydrocarbon Type, vol %		ASTM D 1319
Aromatics	32.1	
Olefins	1.1	
Saturates	66.8	

⁽¹⁾ This product is manufactured and packaged by Chevron Phillips Chemical Company, LP. The data presented herein is from the ASTM Subcommittee D02.01 Section E on Reference Materials and is based on round-robin certification tests performed by the Diesel National Exchange Group.

**ASTM Subcommittee D02.01 on Combustion Characteristics
Cetane Number Calibration for Diesel Secondary Reference Fuels T-30 Blended with U-30 by Volume**

Vol % T-30	Cetane Number	Vol % T-30	Cetane Number	Vol % T-30	Cetane Number
0	20.3	34	38.9	68	57.4
1	20.9	35	39.4	69	58.0
2	21.4	36	40.0	70	58.5
3	22.0	37	40.5	71	59.1
4	22.5	38	41.1	72	59.6
5	23.1	39	41.6	73	60.1
6	23.6	40	42.1	74	60.7
7	24.1	41	42.7	75	61.2
8	24.7	42	43.2	76	61.8
9	25.2	43	43.8	77	62.3
10	25.8	44	44.3	78	62.9
11	26.3	45	44.9	79	63.4
12	26.9	46	45.4	80	64.0
13	27.4	47	46.0	81	64.5
14	28.0	48	46.5	82	65.0
15	28.5	49	47.1	83	65.6
16	29.1	50	47.6	84	66.1
17	29.6	51	48.1	85	66.7
18	30.1	52	48.7	86	67.2
19	30.7	53	49.2	87	67.8
20	31.2	54	49.8	88	68.3
21	31.8	55	50.3	89	68.9
22	32.3	56	50.9	90	69.4
23	32.9	57	51.4	91	70.0
24	33.4	58	52.0	92	70.5
25	34.0	59	52.5	93	71.0
26	34.5	60	53.1	94	71.6
27	35.1	61	53.6	95	72.1
28	35.6	62	54.1	96	72.7
29	36.1	63	54.7	97	73.2
30	36.7	64	55.2	98	73.8
31	37.2	65	55.8	99	74.3
32	37.8	66	56.3	100	74.9
33	38.3	67	56.9		

Note: Secondary Reference Fuels T-30 and U-30 are available from Chevron Phillips Chemical Company LP. These two secondary reference fuels are used in preparing reference cetane number blends in testing diesel fuels by ASTM D-613. Secondary reference fuel blends must be only from these two fuels. Do not blend either of these fuels with an earlier batch of T or U. The data presented herein is from the ASTM Subcommittee D02.01 Section E on Reference Materials and is based on round-robin certification tests performed by the Diesel National Exchange Group.

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