

PORTFÓLIO
DE PRODUTOS
INTERSERVICE

INTER OIL



Paraffinic Base Oil



Physical Properties	Test Method	INTER Oil P-3	INTER Oil P-12	INTER Oil P-21	INTER Oil P-29	INTER Oil P-43	INTER Oil P-61	INTER Oil P-115	INTER Oil 30BS	NAPHTHENIC Inter Oil P43
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	37.7	67.6	110.5	148	219	312	599	2471.6	5128
Viscosity, SUS at 140°F (60°C)	ASTM D2161									1196
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	30.5	35.7	40.3	43.5	48.5	54.4	70.5	148.1	208
Viscosity, cSt at 40°C (104°F)	ASTM D445	3.4	11.5	21.0	28.6	42.6	60.5	114.8	460.7	936
Viscosity, cSt at 100°C (212°F)	ASTM D445	1.3	2.8	4.2	5.1	6.6	8.4	12.7	30.2	42.5
API Gravity, 60°F (15.6°C)	ASTM D1250	42.0	33.2	34.2	33.7	33.1	32.6	30.0	26.8	23.5
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.8153	0.8591	0.8542	0.8565	0.8598	0.8620	0.8761	0.8940	0.9127
Viscosity Index	ASTM D2270		79	100	108	109	108	103	94	82.1
Viscosity - Gravity Constant	ASTM D2501		0.821	0.802	0.799	0.796	0.792	0.800	0.800	0.812
Density, lbs/gal at 60°F	ASTM D1250	6.798	7.162	7.121	7.141	7.169	7.187	7.298	7.454	7.601
Density at 15.6°C, g/cm ³	ASTM D1250	0.8145	0.8582	0.8533	0.8556	0.8593	0.8612		-	0.9118
Molecular Weight	ASTM D2502		303	366	401	445	488	560	731	
Flash Point, COC, °F (°C)	ASTM D92	269 (132)	369 (187)	422 (217)	432 (222)	457 (236)	499 (259)	487 (253)	586 (308)	563 (295)
Flash Point, PMCC, °F (°C)	ASTM D93	246 (119)	349 (176)	403 (206)	415 (213)	433 (223)	474 (246)		-	
Color, ASTM	ASTM D6045		L0.5	L0.5	L0.5	0.6	L1.0	L3.5	L3.5	L2.5
Color, Saybolt	ASTM D6045	30							-	
Pour Point, °F (°C)	ASTM D5949		- 2 (-19)	1 (-17)	2 (-17)	2 (-17)	1 (-17)	-5 (-21)	18 (-8)	14 (-10)
Pour Point, °F (°C)	ASTM D5950	11 (-12)							-	
Cloud Point, °F (°C)	ASTM D5773		9 (-13)	9 (-13)	8 (-13)	6 (-14)	5 (-15)	25 (-4)	18(-8)	
Noack Volatility, wt%	ASTM D5800			21	16.3	9.0	3	7.58	1	
Water Content	ASTM D7546M	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Appearance	ASTM D4176M	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

PORTFÓLIO DE PRODUTOS

Physical Properties	Test Method	INTER Oil P-3	INTER Oil P-12	INTER Oil P-21	INTER Oil P-29	INTER Oil P-43	INTER Oil P-61	INTER Oil P-115	INTER Oil 30BS	NAPHTHENIC Inter Oil P43
Chemical Properties										
Conradson Carbon Residue, wt%	ASTM D4530								0.4	
Acid Number, mg KOH/g	ASTM D664	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Aniline Point, °F (°C)	ASTM D611	185 (85)	203 (95)	225 (107)	233 (112)	242 (117)	250 (121)	248 (120)	262 (128)	252 (122)
Sulfur, ppm	ASTM D4294								167.7	505
Sulfur, ppm	ASTM D5453	90								
Sulfur, ppm	ASTM D7220		3	3.2	4	4	5	147		
Clay Gel, Saturates, wt%	ASTM D2007								80.0	
Saturates								82.8		
Health and Safety Properties										
Polycyclic Aromatic Compounds, wt%	IP 346	<3	<3	<3	<3	<3	<3	<3	<3	<3
Modified Ames Assay,MI	ASTM E1687	<1	<1	<1	<1	<1	<1	<1	<1	<1
FDA Regulation	21 CFR 178.3620 (C)	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

INTER Oil P-3

Recommended use

Metalworking Fluids,
Industrial Lubricants,
Grease Manufacturing,
Hydraulic Oils, Gear Oils,
HeavyDuty Engine Oil,
Bar & Chain, Carriers &
Diluents, Engine Oil.



Physical Properties

Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	37.7
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	30.5
Viscosity, cSt at 40°C (104°F)	ASTM D445	3.4
Viscosity, cSt at 100°C (212°F)	ASTM D445	1.3
API Gravity, 60°F (15.6°C)	ASTM D1250	42.0
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.8153
Density, lbs/gal at 60°F	ASTM D1250	6.798
Density at 15.6°C, g/cm3	ASTM D1250	0.8145
Flash Point, COC, °F (°C)	ASTM D92	269 (132)
Flash Point, PMCC, °F (°C)	ASTM D93	246 (119)
Color, Saybolt	ASTM D6045	30
Pour Point, °F (°C)	ASTM D5950	11 (-12)
Water Content	ASTM D7546M	PASS
Appearance	ASTM D4176M	PASS

Chemical Properties

Acid Number, mg KOH/g	ASTM D664	0.01
Aniline Point, °F (°C)	ASTM D611	185 (85)
Sulfur, ppm	ASTM D7212	9.0



TEST DESCRIPTION TEST METHOD TYPICAL VALUES

INTER Oil P-12

Recommended use

Metalworking Fluids,
Industrial Lubricants,
Grease Manufacturing,
Hydraulic Oils, Gear Oils,
HeavyDuty Engine Oil,
Bar & Chain, Carriers &
Diluents, Engine Oil.



Physical Properties

Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	67.6
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	35.7
Viscosity, cSt at 40°C (104°F)	ASTM D445	11.5
Viscosity, cSt at 100°C (212°F)	ASTM D445	2.8
API Gravity, 60°F (15.6°C)	ASTM D1250	33.2
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.8591
Viscosity Index	ASTM D2270	79
Viscosity - Gravity Constant	ASTM D2501	0.821
Density, lbs/gal at 60°F	ASTM D1250	7.162
Density at 15.6°C, g/cm ³	ASTM D1250	0.8582
Molecular Weight	ASTM D2502	303
Flash Point, COC, °F (°C)	ASTM D92	369 (187)
Flash Point, PMCC, °F (°C)	ASTM D93	349 (176)
Color, ASTM	ATM D6045	L0.5
Pour Point, °F (°C)	ASTM D5949	- 2 (-19)
Cloud Point, °F (°C)	ASTM D5773	9 (-13)
Water Content	ASTM D7546M	PASS
Appearance	ASTM D4176M	PASS

Chemical Properties

Acid Number, mg KOH/g	ASTM D664	0.01
Aniline Point, °F (°C)	ASTM D611	203 (95)
Sulfur, ppm	ASTM D7212	3



TEST DESCRIPTION TEST METHOD TYPICAL VALUES

INTER Oil P-21

Recommended use

Metalworking Fluids,
Industrial Lubricants,
Grease Manufacturing,
Hydraulic Oils, Gear Oils,
HeavyDuty Engine Oil,
Bar & Chain, Carriers &
Diluents, Engine Oil.



Physical Properties

Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	110.5
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	40.3
Viscosity, cSt at 40°C (104°F)	ASTM D445	21.0
Viscosity, cSt at 100°C (212°F)	ASTM D445	4.2
API Gravity, 60°F (15.6°C)	ASTM D1250	34.2
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.8542
Viscosity Index	ASTM D2270	100
Viscosity - Gravity Constant	ASTM D2501	0.802
Density, lbs/gal at 60°F	ASTM D1250	7.121
Density at 15.6°C, g/cm ³	ASTM D1250	0.8533
Molecular Weight	ASTM D2502	366
Flash Point, COC, °F (°C)	ASTM D92	422 (217)
Flash Point, PMCC, °F (°C)	ASTM D93	403 (206)
Color, ASTM	ATM D6045	L0.5
Pour Point, °F (°C)	ASTM D5949	-1 (-17)
Cloud Point, °F (°C)	ASTM D5773	-9 (-13)
Noack Volatility, wt%	ASTM D5800	21
Water Content	ASTM D7546M	PASS
Appearance	ASTM D4176M	PASS

Chemical Properties

Acid Number, mg KOH/g	ASTM D664	0.01
Aniline Point, °F (°C)	ASTM D611	225 (107)
Sulfur, ppm	ASTM D7220	3.2



TEST DESCRIPTION TEST METHOD TYPICAL VALUES

INTER Oil P-29

Recommended use

Metalworking Fluids,
Industrial Lubricants,
Grease Manufacturing,
Hydraulic Oils, Gear Oils,
HeavyDuty Engine Oil,
Bar & Chain, Carriers &
Diluents, Engine Oil.



Physical Properties

Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	148
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	43.5
Viscosity, cSt at 40°C (104°F)	ASTM D445	28.6
Viscosity, cSt at 100°C (212°F)	ASTM D445	5.1
API Gravity, 60°F (15.6°C)	ASTM D1250	33.7
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.8565
Viscosity Index	ASTM D2270	108
Viscosity - Gravity Constant	ASTM D2501	0.799
Density, lbs/gal at 60°F	ASTM D1250	7.141
Density at 15.6°C, g/cm ³	ASTM D1250	0.8556
Molecular Weight	ASTM D2502	401
Flash Point, COC, °F (°C)	ASTM D92	432 (222)
Flash Point, PMCC, °F (°C)	ASTM D93	415 (213)
Color, ASTM	ATM D6045	L0.5
Pour Point, °F (°C)	ASTM D5949	2 (-17)
Cloud Point, °F (°C)	ASTM D5773	8 (-13)
Noack Volatility, wt%	ASTM D5800	16.3
Water Content	ASTM D7546M	PASS
Appearance	ASTM D4176M	PASS

Chemical Properties

Acid Number, mg KOH/g	ASTM D664	0.01
Aniline Point, °F (°C)	ASTM D611	233 (112)
Sulfur, ppm	ASTM D7220	3.2



TEST DESCRIPTION TEST METHOD TYPICAL VALUES

INTER Oil P-43

Recommended use

Metalworking Fluids,
Industrial Lubricants,
Grease Manufacturing,
Hydraulic Oils, Gear Oils,
HeavyDuty Engine Oil,
Bar & Chain, Carriers &
Diluents, Engine Oil.



Physical Properties

Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	219
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	48.5
Viscosity, cSt at 40°C (104°F)	ASTM D445	42.6
Viscosity, cSt at 100°C (212°F)	ASTM D445	6.6
API Gravity, 60°F (15.6°C)	ASTM D1250	33.1
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.8598
Viscosity Index	ASTM D2270	109
Viscosity - Gravity Constant	ASTM D2501	0.796
Density, lbs/gal at 60°F	ASTM D1250	7.169
Density at 15.6°C, g/cm ³	ASTM D1250	0.8593
Molecular Weight	ASTM D2502	445
Flash Point, COC, °F (°C)	ASTM D92	457 (236)
Flash Point, PMCC, °F (°C)	ASTM D93	433 (223)
Color, ASTM	ATM D6045	0.6
Pour Point, °F (°C)	ASTM D5949	-2 (-17)
Cloud Point, °F (°C)	ASTM D5773	-6 (-14)
Noack Volatility, wt%	ASTM D5800	9.0
Water Content	ASTM D7546M	PASS
Appearance	ASTM D4176M	PASS

Chemical Properties

Acid Number, mg KOH/g	ASTM D664	0.01
Aniline Point, °F (°C)	ASTM D611	242 (117)
Sulfur, ppm	ASTM D7220	4



TEST DESCRIPTION TEST METHOD TYPICAL VALUES

INTER Oil P-61

Recommended use

Metalworking Fluids,
Industrial Lubricants,
Grease Manufacturing,
Hydraulic Oils, Gear Oils,
HeavyDuty Engine Oil,
Bar & Chain, Carriers &
Diluents, Engine Oil.



Physical Properties

Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	312
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	54.4
Viscosity, cSt at 40°C (104°F)	ASTM D445	60.5
Viscosity, cSt at 100°C (212°F)	ASTM D445	8.4
API Gravity, 60°F (15.6°C)	ASTM D1250	32.6
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.8620
Viscosity Index	ASTM D2270	108
Viscosity - Gravity Constant	ASTM D2501	0.792
Density, lbs/gal at 60°F	ASTM D1250	7.187
Density at 15.6°C, g/cm ³	ASTM D1250	0.8612
Molecular Weight	ASTM D2502	488
Flash Point, COC, °F (°C)	ASTM D92	499 (259)
Flash Point, PMCC, °F (°C)	ASTM D93	474 (246)
Color, ASTM	ATM D6045	L1.0
Pour Point, °F (°C)	ASTM D5949	1 (-17)
Cloud Point, °F (°C)	ASTM D5773	5 (-15)
Noack Volatility, wt%	ASTM D5800	3
Water Content	ASTM D7546M	PASS
Appearance	ASTM D4176M	PASS

Chemical Properties

Acid Number, mg KOH/g	ASTM D664	0.01
Aniline Point, °F (°C)	ASTM D611	250 (121)
Sulfur, ppm	ASTM D7220	5



TEST DESCRIPTION TEST METHOD TYPICAL VALUES

INTER Oil P-115

Recommended use

Metalworking Fluids,
Industrial Lubricants,
Grease Manufacturing,
Hydraulic Oils, Gear Oils,
HeavyDuty Engine Oil,
Bar & Chain, Carriers &
Diluents, Engine Oil.



Physical Properties

Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	599
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	70.5
Viscosity, cSt at 40°C (104°F)	ASTM D445	114.8
Viscosity, cSt at 100°C (212°F)	ASTM D445	12.7
API Gravity, 60°F (15.6°C)	ASTM D1250	30.0
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.8761
Viscosity Index	ASTM D2270	103
Viscosity - Gravity Constant	ASTM D2501	0.800
Density, lbs/gal at 60°F	ASTM D1250	7.298
Molecular Weight	ASTM D2502	560
Flash Point, COC, °F (°C)	ASTM D92	487 (253)
Color, ASTM	ATM D6045	L3.5
Pour Point, °F (°C)	ASTM D5949	-5 (-21)
Cloud Point, °F (°C)	ASTM D5773	25 (-4)
Noack Volatility, wt%	ASTM D5800	7.58
Water Content	ASTM D7546M	PASS
Appearance	ASTM D4176M	PASS

Chemical Properties

Acid Number, mg KOH/g	ASTM D664	0.01
Aniline Point, °F (°C)	ASTM D611	248 (120)
Sulfur, ppm	ASTM D7220	147
Saturates		82.8



TEST DESCRIPTION TEST METHOD TYPICAL VALUES

INTER Oil P-30BS

Recommended use

Metalworking Fluids,
Industrial Lubricants,
Grease Manufacturing,
Hydraulic Oils, Gear Oils,
HeavyDuty Engine Oil,
Bar & Chain, Carriers &
Diluents, Engine Oil.



Physical Properties

Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	2471.6
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	148.1
Viscosity, cSt at 40°C (104°F)	ASTM D445	460.7
Viscosity, cSt at 100°C (212°F)	ASTM D445	30.2
API Gravity, 60°F (15.6°C)	ASTM D1250	26.8
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.8940
Viscosity Index	ASTM D2270	94
Viscosity - Gravity Constant	ASTM D2501	0.800
Density, lbs/gal at 60°F	ASTM D1250	7.454
Molecular Weight	ASTM D2502	731
Flash Point, COC, °F (°C)	ASTM D92	586 (308)
Color, ASTM	ATM D6045	L3.5
Pour Point, °F (°C)	ASTM D5949	18 (-8)
Cloud Point, °F (°C)	ASTM D5773	18(-8)
Noack Volatility, wt%	ASTM D5800	1
Water Content	ASTM D7546M	PASS
Appearance	ASTM D4176M	PASS

Chemical Properties

Conradson Carbon Residue, wt%	ASTM D4530	0.4
Acid Number, mg KOH/g	ASTM D664	0.0
Aniline Point, °F (°C)	ASTM D611	262 (128)
Sulfur, ppm	ASTM D4294	167.7
Clay Gel, Saturates, wt%	ASTM D7212	80.0



TEST DESCRIPTION TEST METHOD TYPICAL VALUES

NAPHTHENIC Inter Oil P-43

Recommended use

Metalworking Fluids,
Industrial Lubricants,
Grease Manufacturing,
Hydraulic Oils, Gear Oils,
HeavyDuty Engine Oil,
Bar & Chain, Carriers &
Diluents, Engine Oil.



Physical Properties

Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	5128
Viscosity, SUS at 140°F (98.9°C)	ASTM D2161	1196
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	208
Viscosity, cSt at 40°C (104°F)	ASTM D445	936
Viscosity, cSt at 100°C (212°F)	ASTM D445	42.5
API Gravity, 60°F (15.6°C)	ASTM D1250	23.5
Specific Gravity, 60°F (15.6°C)	ASTM D4052	0.9127
Viscosity Index	ASTM D2270	82.1
Viscosity - Gravity Constant	ASTM D2501	0.812
Density, lbs/gal at 60°F	ASTM D1250	7.601
Density at 15.6°C, g/cm ³	ASTM D1250	0.9118
Flash Point, COC, °F (°C)	ASTM D92	563 (295)
Color, ASTM	ATM D6045	L2.5
Pour Point, °F (°C)	ASTM D5949	14 (-10)
Water Content	ASTM D7546M	PASS
Appearance	ASTM D4176M	PASS

Chemical Properties

Conradson Carbon Residue, wt%	ASTM D4530	
Acid Number, mg KOH/g	ASTM D664	0.01
Aniline Point, °F (°C)	ASTM D611	252 (122)
Sulfur, ppm	ASTM D4294	505
Sulfur, ppm	ASTM D7212	
Clay Gel, Saturates, wt%	ASTM D2007	
Saturates		

Health and Safety Properties

Polycyclic Aromatic Compounds, wt%I	P 346	<3
Modified Ames Assay, MI	ASTM E1687	<1
FDA Regulation	21 CFR 178.3620 (C)	

TEST DESCRIPTION TEST METHOD TYPICAL VALUES



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INTER OIL 

The logo graphic for Inter Oil features a stylized oil drop shape with a red and yellow swoosh element extending from its right side.