



**Additives**

# Additives

## Pilot 261 / Pilot 291 / Pilot 321 / Pilot 400 / Pilot 600 / Pilot 900 / Pilot 1200 / Pilot 295SR / Pilot 299 / Pilot 140

The Pilot® Oils portfolio offers the formulator a wide variety of physical and compositional characteristics to enable key performance parameters to be achieved, whilst ensuring optimised additive package compatibility.

Our range includes products from a selection of feedstock and production routes, including hydro-isomerised (de-waxed), deeply hydrogenated and hydro-treated materials.

Pilot Oils® are used in a wide number of high performance applications, including additives for water and effluent treatment, paper manufacturing, fuel additives, lubricant additives, industrial cleaners, caking/anti-caking agents, anti-foams, flow improvers, textile and leather treatments.

Providing a wide range of performance criteria, formulators may select Pilot® Oil grades which will help achieve consistently high-end product performance, with a choice of characteristics:

- Chemically inert
- Defined boiling ranges
- Solvency options
- Chemical/oxidative stability
- Total life economics
- Improved operational effectiveness
- Non-taint/stain
- UV stability
- Temperature gradient performance
- Low pour points
- High purity
- Low vapour pressures
- Excellent temperature/pressure performance
- FDA & BfR optionality
- Blue Angel compliance
- Low environment impact
- Occupational hygiene & operator safety
- Low human and aquatic toxicity
- Readily biodegradable

Properties	Unit	Pilot 261	Pilot 291	Pilot 321	Pilot 295 SR	Pilot 299	Pilot 140	Pilot 400	Pilot 600	Pilot 900	Pilot 1200
Viscosity	mm <sup>2</sup> s	2.32	3.7	3.9	3.0	4.8	4.32	4.3	6.0	8.5	12.0
Density @ 15°C	g/mL	0.818	0.819	0.820	0.818	0.832	0.816	0.830	0.850	0.860	0.820
Boiling Range	°C	236-272	256-305	275-320	256-296	260-293	260-330	275-320	285-335	314-340	275-465
Flash Point	°C	100	115	125	118	122	120	138	140	160	195
Pour Point	°C	-31	-16	-9	-34	-32	-14	-36	-40	-39	-33
Aromatics Content	% volume	<0.3	<0.5	0.4	9	18	5.4	<0.4	<0.5	0.1	<0.1
FDA	178.362	C	B	C	C	C	C	B	B	B	B
% VOC	%	0	0	0	0	0	0	0	0	0	0
Group	1/2/3/4	1	1	1	1	1	1	1	1	2	3

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