UNITED VESTA S REFRIGERATION OIL

Product Description:

United Vesta S Refrigeration Oil is a naphthenic-based compressor oil with low carbon forming tendencies. In hot applications it forms small amounts of soft fluffy carbon where paraffinic based lubricants form larger amounts of harder carbon. In addition to its deposit control characteristics, it is also non-reactive with coolant compounds typically encountered in refrigeration compressors.

United Vesta S Refrigeration Oil is compounded from highly refined, low pour point oils with good resistance to oxidation, low wax forming tendencies and good water separation properties. It is also thermally stable and has good chemical stability with most conventional refrigerant other than Hydrofluorocarbons (HFCs) are used.

United Vesta S Refrigeration Oil is specially formulated for reciprocating and rotary refrigeration compressors in air conditioning systems or refrigeration systems with chlorofluoro-carbons (CFCs) (eg. R12); ammonia (eg. R717); hydrochlorofluorocarbons (HCFCs) (eg. R22); carbon dioxide (CO_2) (eg. R744); sulfur dioxide (SO_2) or ethylene chloride ($C_2H_4Cl_2$) as refrigerant. Nevertheless it was not suitable for systems containing HFC refrigerants (eg. HFC 134a).

Applications / Benefits:

- Excellent oxidation resistance reduces oil thickening, ensuring extended oil change intervals.
- Non – reactive with conventional refrigerants.
- Minimizes deposit formation.
- Good lubrication properties and good low temperature fluidity.

Typical Characteristics:

Test Description	Method	15	32	46	55	68	100
ISO Viscosity Grade	-	15	32	46	55	68	100
Specific Gravity @ 15 ℃	ASTM D 4052	0.876	0.910	0.912	0.912	0.914	0.915
Flash Point, ℃	ASTM D 92	178	204	210	205	200	200
Pour Point , ℃	ASTM D 97	-45	-39	-36	-36	-33	-30
Pour Point , ℉	ASTM D 97	-49	-38.2	-32.8	-32.8	-27.4	-22
Kinematic Viscosity, cSt @ 40℃	ASTM D 445	14.8	33.2	48.5	55.1	69.6	96.7
cSt @ 100℃	ASTM D 445	3.09	4.71	5.78	6.25	7.16	9.90
Viscosity Index	ASTM D 2270	42	22	30	33	38	75
Color	ASTM D 1500	0.5	0.5	<1.0	1.0	1.5	2.0

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