

## PRODUCT DATA SHEET

**INS & NSF H1 Registered**

**PRODUCT NAME: Food Grade Compressor/vacuum Fluid CODE: FF177**

### INTRODUCTION

MDS Food Grade compressor/vacuum lubricants are a special formulation of ultra pure synthetic base oils and antioxidant system. The result: performance that exceeds many industrial grade lubricants with no compromise in food grade purity.

MDS Food Grade compressor oils are Registered INS H1 & NSF H1 for incidental food contact applications and meet FDA regulation 21 CFR, Section 178.3570.

### FEATURES AND BENEFITS

- Outstanding resistance to fluid breakdown caused by air and high temperatures.
- Extended lubricant life – up to 5,000 hours in rotary screw compressors.
- Keeps pneumatics free of sludge and varnish.
- Reduces power consumptions by 3-4% by staying in grade.
- Reduces operating costs by extending periods between complete change-outs.
- Superior water separation properties-Improves efficiency of condensate recovery.
- Suitable for oxygen rich pumps

### APPLICATIONS

MDE Food Grade compressor/vacuum lubricants may be safely used to lubricate air compressors and vacuum pumps used for producing, manufacturing, packing, processing, treating or packaging food.

Operational recommendations for change-out intervals are:

GRADE	COMPRESSOR	DISCHARGE <85°C	DISCHARGE >85°C
FG 32, 46	Rotary Screws	4000 hours	2000 hours
FG 100	Rotary Vanes	Per OEM guidelines	
FG 68, 100	Reciprocating		

Up to a maximum of 100oC air discharge temperature.

**NOTE:** These recommendations are based on no contamination on initial fill and generally clean air supply.

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Vat No: GB 978127284

Company Reg No: NI 615967

## TYPICAL PERFORMANCE DATA

PROPERTY	TEST METHOD	MDS FOOD GRADE COMPRESSOR FLUID			
		32	46	68	100
Density, kg/L	D4052	0.859	0.866	0.872	0.876
Viscosity, cSt @ 40oC	D445	32	46	68	101
cSt @ 100oC		5.6	7.1	9.0	
Viscosity Index		110	108	104	120
Flash Point, COCoC (oF)	D92	211 (412)	290 (446)	245 (473)	254 (490)
Pour Point, oC	D97	-45	-40	-40	-40
Colour	D1500	0.5	0.5	0.5	0.5
TAN	D664	0.1	0.1	0.1	0.1
Emulsion Characteristics	D1404	Pass 15 min	Pass 15 min	Pass 15 min	Pass 15 min
Foam Sequence 1	D892	5/0	5/0	5/0	5/0
Ramsbottom Carbon, %	D524	0.01	0.01	0.01	0.01
Oxidation Test (RBOT),min	D2272	1000+	1000+	1000+	1000+

The value quoted above are typical of normal production. They do not constitute a specification.

All ingredients are FDA listed. FF177 FOOD GRADE COMPRESSOR/ VACUUM PUMP OIL is INS H1 & NSF H1 registered and meet the USDA 1998 H1 Guidelines.

INS Registration No 1794543. NSF Registration No.130676  
These products contain no nut derived or genetically modified ingredients.



**LIMITED WARRANTY** MDS Europe Ltd makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in MDS Europe Ltd. materials and workmanship. This limited Express Warranty is in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of MDS Europe Ltd. The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and MDS Europe Ltd. shall not be liable for incidental or consequential damages.

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