

DATE: 5/24/2019

INVITATION TO BID  
THIS IS NOT AN ORDER

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BID NO.: 50-00126752

**JEFFERSON PARISH**

PURCHASING DEPARTMENT  
P.O. BOX 9  
GRETNA, LA. 70054-0009  
504-364-2678

VENDOR: \_\_\_\_\_

BUYER: SFOLSE

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH is expecting all products to be new and all work to be done in workman-like manner, according to standard practices. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

<b>DELIVERY: FOB JEFFERSON PARISH</b>	
INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES	14 DAYS ARO _____
INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK	_____
INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK	_____

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: \_\_\_\_\_  
NUMBER: \_\_\_\_\_  
NUMBER: \_\_\_\_\_  
NUMBER: \_\_\_\_\_

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) \_\_\_\_\_

<b>*** ALL BIDDERS MUST COMPLETE SECTION BELOW ***</b>	
FIRM NAME:	SPAHR ENTERPRISES INC
SIGNATURE: (Must be signed here)	TITLE: PRESIDENT
PRINT OR TYPE NAME:	DAVID SPAHR
ADDRESS:	2309 WASHINGTON AVE
CITY, STATE:	HARVEY LA ZIP: 70058
TELEPHONE:	FAX: ( 504 ) 368-7500
TELEPHONE:	( 504 ) 368-5823
EMAIL ADDRESS:	spahr1@cox.net

TOTAL PRICE OF ALL BID ITEMS: \$ 1987.50 \_\_\_\_\_

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00126752

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	25.00	5GAP	<p>ONE TIME PURCHASE OF TRANSFORMER OIL FOR THE JEFFERSON PARISH WESTBANK DEPARTMENT OF PUBLIC WORKS</p> <p>0010 - OIL, INHIBITED TRANSFORMER, EQUAL TO SHELL DIALA S2-ZX-A, IN 5 GALLON PAILS SK NUMBER 00-0017080</p> <p>DELIVER TO: PUBLIC WORKS WAREHOUSE 1500 RIVER PARK ROAD BRIDGE CITY, LA 70094</p>	\$79.50	\$1987.50

# Super S<sup>®</sup> Inhibited Transformer Oil

TECHNICAL PRODUCT INFORMATION



## Super S Inhibited Transformer and Electrical Insulating Oil

Super S Inhibited Transformer Oil is an electrical insulating oil produced from severely hydrotreated naphthenic base oils to meet the specifications defined in ASTM D 3487. It is formulated with an oxidation inhibitor to minimize formation of acids and sludge in service to minimize oil deterioration and extend the operating life of the immersed components.

### FEATURES/ BENEFITS

- **Excellent oxidation stability** - Formulated with oxidation inhibitors which minimize the formation of sludge, acids, esters, peroxides and moisture which are the major cause of deterioration of the insulating oil. This allows components to operate at higher temperatures for longer periods, increasing component life.
- **Low pour point and low viscosity** - Allows oil to penetrate solid insulation to help convey heat from core materials to reduce operating temperature and increase component life under a wide range of operating conditions.
  - High dielectric strength and low power factor provide excellent insulating properties.
  - Noncorrosive to copper and copper alloys
  - Does not contain any PCBs

### APPLICATIONS

Oil-immersed transformers and electrical components

Circuit breakers and electrical fuses

Switches

Tap changers

Any application requiring a low viscosity, low pour point, high quality naphthenic base oil.

### SUPER S INHIBITED TRANSFORMER OIL MEETS THE REQUIREMENTS OF:

ANSI/ ASTM D 3487 Type II Inhibited Oil

Federal VV-I-530A, Class II Specification

NATO symbol S-756, British Standard BS148:1972

GE A13A3A2 (10CA) Specification

IEC 296 Class IIA Specification

NEMA Type II TR-P8-1975

IEEE

IEC 60296

Westinghouse Specification PDS 55822AG

### PHYSICAL PROPERTIES

property		MIN	MAX	Typical
Viscosity, SUS @ 37.8 °C	ASTM D 445		66	59.2
Viscosity, SUS @ 98.9 °C	ASTM D 445		36	34.0
Viscosity, cSt @ 0°C	ASTM D 445		76	64.2
Viscosity, cSt @ 40°C	ASTM D 341		12	9.3
Viscosity, cSt @ 100°C	ASTM D 341		3	2.3
Specific Gravity, 15.6°C	ASTM D 4052		0.91	0.8862
Flash Point, COC, °C	ASTM D 92	145		155
Color, ASTM	ASTM D 6045		0.5	L0.5
Pour Point, °C	ASTM D 5949		-40	-64
Interfacial Tension, 25°, dynes/cm	ASTM D 971	40		51
Visual Examination	ASTM D 1524	Clear & Bright		Clear & Bright

**ELECTRICAL PROPERTIES**

property		MIN	MAX	Typical
Dielectric Breakdown @ 60 Hz, Disk electrodes, kV	ASTM D 877	30		40
Dielectric Breakdown @ 60 Hz, VDE, kV (2.03-mm) gap	ASTM D 1816	35		47
Power Factor @ 60 Hz, 25°C, %	ASTM D 924		0.05	0.005
Power Factor @ 60 Hz, 100°C, %	ASTM D 924		0.3	0.075
Gassing Tendency, µL./min	ASTM D 2300		30	12

**CHEMICAL PROPERTIES**

property		MIN	MAX	Typical
Oxidation Stability	ASTM D 2440			
72 hr: Sludge, % by mass			0.1	<0.01
Total Acid Number, mg KOH/g			0.3	<0.01
164 hr: Sludge, % by mass			0.2	<0.01
Total Acid Number, mg KOH/g			0.4	<0.01
Oxidation Stability (Rotating Bomb Test), minutes	ASTM D 2112	195		248
Oxidation Inhibitor Content, wt %	ASTM D 2668	0.15	0.3	0.26
Corrosive Sulfur	ASTM D 1275 (B)	Noncorrosive		Noncorrosive
Water Content, ppm	ASTM D 1533		35	9
Neutralization Number, mg KOH/g	ASTM D 974		0.03	<0.01
Aniline Point, °C	ASTM D 611	63	84	74.7
PCB Content, ppm	ASTM D 4059		Not detected	Not detected

**HEALTH AND SAFETY PROPERTIES (not an ASTM D 3487 requirement)**

property		MIN	MAX	Typical
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay	ASTM E 1687	PASS		PASS
FDA Regulation	21 CFR 178.3620 (C)	PASS		PASS

**SPECIAL HANDLING**

Dielectric strength and Oxidation Stability will be compromised with dirt or even a small amount of water. Oil must be kept clean and dry. Store indoors, protect from dust and debris. Drums are sealed with a nitrogen blanket to protect against moisture.

**PRODUCT NUMBER/ PACKAGING**

SUS 235-55 55 gallon drum