

# Technical Data Sheet

## **NORC ORKAN STO** High Performance Turbine Oils

### **DESCRIPTION**

**NORC ORKAN STO** is a top quality lubricating oil for gas and steam turbines, as well as turbo compressors with and without gears, which require DIN 5151-2. It was carefully developed to fully satisfy the increasing demands of today's turbine oils, as well as, to facilitate a degree of rationalization in gas and steam plants.

**NORC ORKAN STO** is manufactured using the highest quality selected base oils and state of the art additive technology to ensure a finished product with an outstanding corrosion protection and resistance to aging. They have superior rust and oxidation prevention properties, as well as, exceptional air and water release characteristics.

**NORC ORKAN STO** is for use in stationary gas turbines, steam turbines and in electric or steam powered turbine engines. It can also be used for the lubrication of hydraulic systems, compressors, gear transmissions and bearings. Also, it is suitable for the compression of synthesis gases and ammonia.

### **BENEFITS**

- Exceptional performance.
- Excellent thermal and oxidation stability.
- Extended drain intervals.
- Good viscosity index (VI) and shear stability.
- Excellent air release and water release properties.
- Excellent corrosion and wear protection.
- Compatible with seals.
- Minimal sludge and deposits formation.
- Excellent ageing stability.
- Minimal breakdowns times and expenses.

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### SPECIFICATIONS

DIN 51515 PART 1 (L-TD), DIN 51515 PART 2 (L-TG)  
 SIEMENS TLV 9013 04/01  
 BRITISH STANDARD BS 489  
 GENERAL ELECTRIC GEK 32568 A/C  
 MIL-L-17672 D  
 CEGB STANDARD 207001  
 BROWN BOVERI HTGD 90117  
 US STEEL 120  
 WESTINGHOUSE ELECTRIC CORP  
 ALSTOM HTGD 90117 V0001 S  
 SOLAR ES 9 224 CLASS II

### TECHNICAL DATA SHEET

PROPERTY	UNIT	STO 32	STO 46	STO 68	STO 100
Density	Kg/L	0.838	0.843	0.854	0.873
Kinematic Viscosity @ 40°C	Cst	32	46	68	100
Kinematic Viscosity @ 100°C	Cst	6.00	7.61	9.75	11.7
Viscosity Index		134	131	124	105
Flash Point	°C	> 235	> 235	> 240	> 250
Pour point	°C	<-30	<-30	<-30	<-25

The above data is just an indication based on production, and does not considered to be actual specification. "NANO OIL REFINING COMPANY NORC GmbH" holds its right to make modifications.