

LOW SULPHUR HEAVY STOCK (LSHS) / HEAVY PETROLEUM STOCK (HPS)

LSHS and HPS are residual fuels produced after processing of indigenous crudes. They have pour points and require special handling arrangements. These can be used in lieu of FO in the same applications where furnace oil is suitable. LSHS has additional advantage of having low sulphur content and high calorific value.

These products are having pour points generally higher than the ambient temperature and hence needs specially designed oil handling systems such as steam traced or electrically traced storage tanks, pipelines, pumps and filters.

LSHS CONFORMS TO GRADE 1 OF IS 11489:1985 (Reaffirmed 2001 & Amendment No. 1) SPECIFICATIONS FOR HEAVY PETROLEUM STOCK.

HPS CONFORMS TO GRADE 2 OF IS 11489:1985 (Reaffirmed 2001 & Amendment No. 1) SPECIFICATIONS FOR HEAVY PETROLEUM STOCK.

LSHS / HPS Specification

Sr. No.	Characteristics	Method of test, IS: 1448	Requirements	
			Grade 1	Grade 2
i)	Pour Point, °c, max.	P: 10 #	66	72
ii)	Flash Point, (PMCC), °c, min.	P: 21	76	66
iii)	Kinematic Viscosity, mm ² /s @ 100°C, min.	P: 25	100*	
iv)	Relative density, at 15 °c,/15 °c,	P: 32 or P: 16	To be reported	
v)	Gross calorific value	P: 6 (For reference) P: 7 (For routine)	To be reported (see note)	
vi)	Acidity, inorganic	P: 2Nil.....	
vii)	Ash, percent by mass, max	P: 4 (method A)	0.1	0.1
viii)	Sediment, percent by mass, max.	P: 30	0.25	0.25
ix)	Sulphur, total, percent by mass, max.	P: 33 (For reference) P: 35 (For routine)	1.0	4.5
x)	Water content, percent by mass, max.	P: 40	1.0	1.0

Note: Normally the gross calorific value is of the order of 10, 000 cal/g.

A suitable thermometer having a range up to 75°C may be used in place of IP 1C thermometer.

* Recognizing the necessity a higher limit may be agreed between the purchaser and the supplier.