



PLANT PURCHASING SPECIFICATION
BHOPAL

BP 56791

REV NO. 02

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SUPERSEDES
BP 56791 Rev.01

HEAT CONVEYOR SOLVENT

1. GENERAL:

This specification governs the quality of Heat Conveyor Solvent (Shellsol - H). It is a low viscosity solvent, more like Kerosene and with a flash point of 62 deg.C. Min.

2. APPLICATION:

Used in vapour phase plant of transformers and reactors, as the heat carrier.

3. COMPLIANCE WITH NATIONAL STANDARDS:

There is no Indian Standard covering this type of material.

4. FREEDOM FROM DEFECTS:

The material shall be clear and free from sediments, suspended and undissolved matters.

5. TEST SAMPLES:

1 litre sample shall be drawn from each consignment for testing and approval.

6. PROPERTIES:

Unless otherwise specified testing shall be done as per relevant method of IS : 1448,

6.1 Routine Tests:

- 6.1.1 Distillation Range : 183 deg.C. - IBP
: 209 deg.C. - FBP
- 6.1.2 Residue on Evaporation : 1.5% by volume, max.
- 6.1.3 Specific Gravity 15/15 deg.C : 0.787
- 6.1.4 Flash Point Abel : 62 deg.C, Min.
- 6.1.5 Copper strip test : Not worse than No.1

Revision : Cl.6.1.1 Modified

Reviewed & Brought upto date

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STANDARDS AND MATERIALS GROUP
TECHNICAL SERVICES DEPARTMENT

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- 6.1.6 Dielectric Constant at 20deg.C (500 V , at 50 HZ) : 2.66, Min
6.1.7 Loss Factor at 20 deg.C (500 V, at 50 HZ) : 0.018 Max. } When tested as per
Conventional
method.

6.2 Type Tests : (T.C to be supplied by supplier)

- 6.2.1 Colour saybolt : 30
6.2.2 Aromatic Contents : 17 % by volume.
6.2.3 Mercaptans (Doctor test) : Negative

7. TEST CERTIFICATE:

Unless otherwise specified 3 copies of test certificate shall be supplied giving the following information.

BP 56791 - Rev. 02 : Heat Conveyor Solvent

BHEL Order No

Suppliers name & Trade Mark, if any.

Batch No.

Test results for compliance with clause 6.

The supplier shall ensure to enclose one copy of the above test certificate, alongwith their despatch documents, to ensure quick clearance of material.

8. PACKING AND MARKING:

The material shall be supplied in securely closed mild steel galvanised drums, protected from light and stored in cool well ventilated place. Each container shall be marked with the following information.

BP 56791: Heat Conveyor Solvent

BHEL Order No.

Manufacturer's Suppliers Name

Batch No.

Date of manufacture & Expiry if any

Quantity supplied

Safety Precautions/Marking.