

## REFINED WHITE SPIRIT

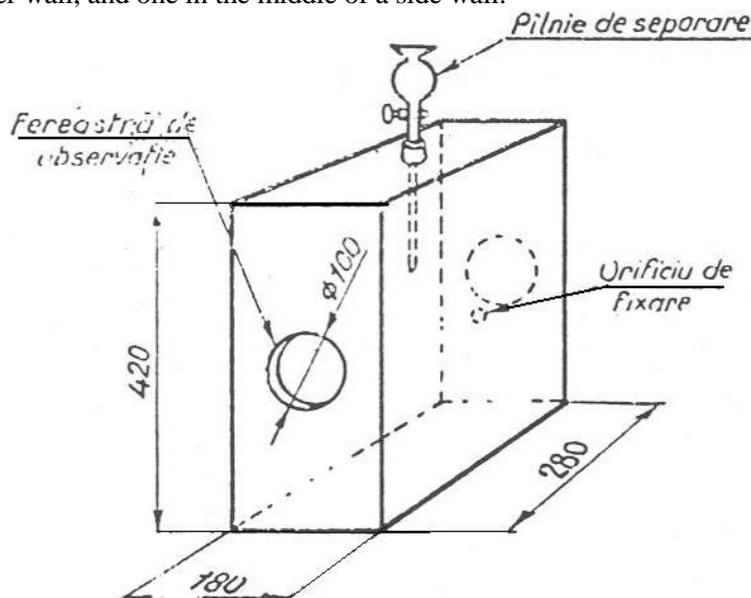
USES: ECOLOGICAL SOLVEN IN THE VARNISH AND PAINT INDUSTRY, FOR RUBBER INDUSTRY, FOR CONDITIONING INSECTICIDES ETC

PROPERTY	UM	LIMITS		TEST METHOD
		Min.	Max.	
Density at 15 <sup>0</sup> C	kg/m <sup>3</sup>	-	815	SR EN ISO 12185-03 SR EN ISO 3675-02/C91:2005 ASTM D 4052-16 / ASTM D 1298-12b(2017)
Flash point, A	<sup>0</sup> C	33	-	SR EN ISO 13736-13
Distillation:				
- initial boiling point	<sup>0</sup> C	-	165	SR EN ISO 3405-11
- till 200 <sup>0</sup> C distil	%(v/v)	98	-	ASTM D 86-17
- residue + losses	%(v/v)	-	2	
Volatility relative to xylenes		2	4.5	SS 102
Water and mechanical impurities			lack	SS 102
Mineral acidity and alkalinity			lack	STAS 22-64 ASTM D 1093-04(07)
Sulphur content	%(m/m)	-	0.0250	SR EN ISO 8754-04 ASTM D 4294-16e1 / ASTM D 5453-16e1
Aromatics hydrocarbon content	%(v/v)	-	22	STAS 25-67 ASTM D 1319-15 SR EN 15553-07
Saybolt colour	units	+20	-	ASTM D 156-15
Corrosion on copper blade (3h la 100 <sup>0</sup> C)			class 1	SR EN ISO 2160-03 ASTM D 130-10

### Determination of volatility relative to xylenes

#### Equipments:

Wooden box parallelepiped, with dimensions 280\*180\*420 cm, as in the drawing. The box has two openings: one in the middle of the upper wall, and one in the middle of a side wall.



On the walls with dimensions of 180 \* 420 mm are two observations window, with 100 mm diameter. Window centers are located on the same horizontal. In the opening of the upper wall is fixed a separating funnel, and in the lateral move freely a wood clamp. Filter paper is fixed by the clamp.

- Chronometer with one second/ division.

**Reactive:**

- Xylene

**Working Procedure:**

With the clamp is fixed a piece of filter paper with small pore, in horizontal position from the top wall of the box.

From the separating funnel let falls a drop of xylene

When the xylene drop touches the filter paper begins timing the time volatilization.

Very quickly, filter paper is placed vertically in the windows of observation.

The chronometer stops when xylene stain on the paper completely disappeared.

After this, wash the separating funnel and fill it with white spirit.

The volatilization time of the white-spirit is determined in the same mode as for xylene but on another filter paper.

Observations:

1. Determination is made at a temperature of 18 .... 20°C.
2. The box vent after each determination.
3. Pieces of filter paper will be cut from the same school.

**Calculation:**

Volatility relative to xylene=  $t_1/t_2$

Where:

- t1 = volatilization time of the white-spirit, in seconds;
- t2 = volatilization time of xylene, in second.

**Determination of mechanical impurities and water**

The sample for analysis is introduced into an eprouvette, with approximately 40 mm diameter, and heated to 15-20°C. Water and mechanical impurities is considered lack if the content of eprouvette is clear and do not have substances in suspension and no water decanted or other visible impurities at the bottom of the eprouvette.

**Quality control:** the control is done on lot (batch)

The batch size corresponds to tank capacity, max.1000 tones for delivery in trucks and tankers and will consist of the same product type.

For each parcel must to check all quality coefficients provided in standard specification of the product/type.

The product must to comply with all provided characteristics. If not, the lot is rejected.

In case of litigation, quality control will be made on samples taken in accordance with sampling procedure and hold for this case.

**Sampling procedure:** SR EN ISO 3170-2004/C91:2005/ASTM D 4057-12

Information on product classification, packing, labelling, handling, transport and storage: according to Safety Data Sheet 1V.

**The integrated Quality-Environment-Occupational Health and Safety Management System** is certified by DNV-GL according to the following standards:

- ISO 9001
- ISO 14001
- BS OHSAS 18001

The test lab is accredited by RENAR, in compliance with SR EN ISO/CEI 17025.

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