

## Semi-finished GF-01 alkyd varnish, first grade

### TS 20.30.12-002-55854775-2019

**Appearance:** transparent solution of homogenous consistency of glyphthal resin, modified in volatile organic solvents.

**Application:** The varnish is used as a binder in the manufacture of glyphthal enamels, primers, putties.

#### Specifications:

No.	Indicator name	Guaranteed performance
1	Iodometric scale color, not darker than	130
2	Varnish appearance	Transparent, slight opalescence (weak whitishness) is allowed
3	Varnish purity	The varnish layer should be transparent and free of mechanical inclusions and rashes
4	Relative viscosity by VZ-246 viscometer, with a nozzle diameter of 4 mm at a temperature of $(20 \pm 0.5)$ °C, s	45 - 85
5	Non-volatile matter content, %	$43 \pm 2$
6	Acid value, mg KOH/g, max.	13
7	Hardness of varnish coating (pendulum A), relative units, not less than	0.12
8	Drying time to degree 3, h, max: at a temperature of $(20 \pm 2)$ °C at a temperature of $(80 \pm 2)$ °C	24 1,5
<p><b>Note:</b> it is allowed to increase the relative viscosity of varnishes during storage, if when diluting them to the original viscosity varnishes meet the requirements of these technical specifications.</p>		

**Packaging:** bulk, IBC – cube (1000 l), barrel (200 l).

**Semi-finished PF-020 alkyd varnish, first grade**  
 TS 20.30.12-002-55854775-2019

**Appearance:** transparent solution of homogenous consistency of pentaphtalic resin, modified in volatile organic solvents.

**Application:** The varnish is used as a binder in the manufacture of pentaphtalic enamels, primers, putties.

**Specifications:**

No.	Indicator name	Guaranteed performance
1	Iodometric scale color, not darker than	100
2	Varnish appearance	Transparent, slight opalescence (weak whitishness) is allowed
3	Varnish purity	The varnish layer should be transparent and free of mechanical inclusions and rashes
4	Relative viscosity by VZ-246 viscometer, with a nozzle diameter of 4 mm at a temperature of (20±0.5) °C, s	40 - 60
5	Non-volatile matter content, %	50 ± 2
6	Acid value, mg KOH/g, max.	20
7	Hardness of varnish coating (pendulum A), relative units, not less than	0.13
8	Drying time to degree 3, h, max: at a temperature of (20 ± 2) °C at a temperature of (60 ± 2) °C	24 4
<p><b>Note:</b> it is allowed to increase the relative viscosity of varnishes during storage, if when diluting them to the original viscosity varnishes meet the requirements of these technical specifications.</p>		

**Packaging:** bulk, IBC – cube (1000 l), barrel (200 l).

## Semi-finished PF-060 alkyd varnish, first grade

### TS 20.30.12-002-55854775-2019

**Appearance:** transparent solution of homogenous consistency of pentaphtalic resin, modified with vegetable oils in organic solvents.

**Application:** The varnish is used as a binder in the manufacture of pentaphtalic enamels, primers, putties.

#### Specifications:

No.	Indicator name	Guaranteed performance
1	Iodometric scale color, not darker than	60
2	Varnish appearance	Transparent, slight opalescence (weak whitishness) is allowed
3	Varnish purity	The varnish layer should be transparent and free of mechanical inclusions and rashes
4	Relative viscosity by VZ-246 viscometer, with a nozzle diameter of 4 mm at a temperature of (20±0.5) °C, s	55 - 150
5	Non-volatile matter content, %	53 ± 2
6	Acid value, mg KOH/g, max.	20
7	Hardness of varnish coating (pendulum A), relative units, not less than	0.10
8	Drying time to degree 3, h, max: at a temperature of (20 ± 2) °C at a temperature of (80 ± 2) °C	36 2
<p><b>Note:</b> it is allowed to increase the relative viscosity of varnishes during storage, if when diluting them to the original viscosity varnishes meet the requirements of these technical specifications.</p>		

**Packaging:** bulk, IBC – cube (1000 l), barrel (200 l).

**Semi-finished PF-060 alkyd varnish, second grade**  
 TS 20.30.12-002-55854775-2019

**Appearance:** transparent solution of homogenous consistency of pentaphtalic resin, modified with vegetable oils in organic solvents.

**Application:** The varnish is used as a binder in the manufacture of pentaphtalic enamels, primers, putties.

**Specifications:**

No.	Indicator name	Guaranteed performance
1	Iodometric scale color, not darker than	500
2	Varnish appearance	Transparent, slight opalescence (weak whitishness) is allowed
3	Varnish purity	The presence of single mechanical inclusions not more than 10 pcs is observed. This does not take into account the rash on the corolla at a distance of 5 mm from the border of the varnish loading start
4	Relative viscosity by VZ-246 viscometer, with a nozzle diameter of 4 mm at a temperature of $(20 \pm 0.5) ^\circ\text{C}$ , s	55 - 150
5	Non-volatile matter content, %	$53 \pm 2$
6	Acid value, mg KOH/g, max.	20
7	Hardness of varnish coating (pendulum A), relative units, not less than	0.10
8	Drying time to degree 3, h, max: at a temperature of $(20 \pm 2) ^\circ\text{C}$ at a temperature of $(80 \pm 2) ^\circ\text{C}$	36 2
<p><b>Note:</b> it is allowed to increase the relative viscosity of varnishes during storage, if when diluting them to the original viscosity varnishes meet the requirements of these technical specifications.</p>		

**Packaging:** bulk, IBC – cube (1000 l), barrel (200 l).

## Semi-finished PF-060 alkyd varnish, high grade

### TS 20.30.12-002-55854775-2019

**Appearance:** transparent solution of homogenous consistency of pentaphtalic resin, modified with vegetable oils in organic solvents.

**Application:** The varnish is used as a binder in the manufacture of pentaphtalic enamels, primers, putties.

#### Specifications:

No.	Indicator name	Guaranteed performance
1	Iodometric scale color, not darker than	10
2	Varnish appearance	Transparent, slight opalescence (weak whitishness) is allowed
3	Varnish purity	The varnish layer should be transparent and free of mechanical inclusions and rashes
4	Relative viscosity by VZ-246 viscometer, with a nozzle diameter of 4 mm at a temperature of $(20 \pm 0.5) \text{ } ^\circ\text{C}$ , s	55 - 150
5	Non-volatile matter content, %	$53 \pm 2$
6	Acid value, mg KOH/g, max.	20
7	Hardness of varnish coating (pendulum A), relative units, not less than	0.10
8	Drying time to degree 3, h, max: at a temperature of $(20 \pm 2) \text{ } ^\circ\text{C}$ at a temperature of $(80 \pm 2) \text{ } ^\circ\text{C}$	36 2
<p><b>Note:</b> it is allowed to increase the relative viscosity of varnishes during storage, if when diluting them to the original viscosity varnishes meet the requirements of these technical specifications.</p>		

**Packaging:** bulk, IBC – cube (1000 l), barrel (200 l).

## Semi-finished alkyd-urethane varnish AU, high grade

### TS 20.30.12-002-55854775-2019

**Appearance:** transparent solution of homogenous consistency of pentaphtalic resin in organic solvents, modified with fatty acids of tall oil and toluene diisocyanate.

**Application:** The varnish is intended for use as a binder for the manufacture of quick-drying, weatherproof, wear-resistant, water-resistant and weak solutions of chemical agents of enamels, primer enamels, primers and varnishes capable of forming decorative and protective coatings on various types of surfaces.

#### Specifications:

No.	Indicator name	Guaranteed performance
1	Iodometric scale color, not darker than	20
2	Varnish appearance	Transparent, slight opalescence is allowed (weak whitishness)
3	Varnish purity	The varnish layer should be transparent and free of mechanical inclusions and rashes
4	Relative viscosity by VZ-246 viscometer, with a nozzle diameter of 4 mm at a temperature of (20.0±5.5) °C, s	160 - 260
5	Non-volatile matter content, %	50 ± 3
6	Acid value, mg KOH/g, max.	-
7	Hardness of varnish coating (pendulum A), relative units, not less than	0.25
8	Drying time to degree 3, h, max: at a temperature of (20 ± 2) °C	4
<p><b>Note:</b> it is allowed to increase the relative viscosity of varnishes during storage, if when diluting them to the original viscosity varnishes meet the requirements of these technical specifications.</p>		

**Packaging:** bulk, IBC – cube (1000 l), barrel (200 l).