

**PIGMENTS COATINGS  
HOSTANOL® HW 30  
PIGMENT PREPARATIONS**

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**HOSTANOL  
HW 30**

**PRODUCT NAME**

Colour Index  
Chemical Characterization



**YELLOW HR**

Pigment Yellow 83  
Disazo pigment



**RED F5RK**

Pigment Red 170  
Azo pigment



**BLUE B2G**

Pigment Blue 15:3  
Cu-Phthaloblue, -Mod.

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**HOSTANOL  
HW 30**

**PRODUCT NAME**

Colour Index  
Chemical Characterization



**BROWN HFR**

Pigment Brown 25  
Benzimidazolone



**BLACK R**

Pigment Black 7  
Carbon Black



**WHITET**

Pigment White 6  
Titanium Dioxide

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## RECOMMENDATION FOR WOOD SHADES



**UNSTAINED ASH**



**NATURAL MAHOGANY**

Hostanol HW 30 Yellow HR	0.63
Hostanol HW 30 Red F5RK	1.04
Hostanol HW 30 Black R	0.84
Base Wood Stain *	97.49



**RED MAHOGANY**

Hostanol HW 30 Yellow HR	1.61
Hostanol HW 30 Red F5RK	2.77
Hostanol HW 30 Black R	0.62
Base Wood Stain *	95.00



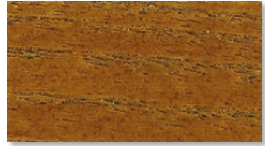
**LIGHT TEAK**

Hostanol HW 30 Yellow HR	2.78
Hostanol HW 30 Red F5RK	1.21
Hostanol HW 30 Black R	1.01
Base Wood Stain *	95.00



**LIGHT OAK**

Hostanol HW 30 Yellow HR	4.08
Hostanol HW 30 Red F5RK	0.41
Hostanol HW 30 Black R	0.51
Base Wood Stain *	95.00



**GOLD OAK**

Hostanol HW 30 Yellow HR	4.20
Hostanol HW 30 Red F5RK	0.35
Hostanol HW 30 Black R	0.26
Base Wood Stain *	95.19

*\*Base wood stain:  
25 Parts Isopropanol  
20 Parts Isobutanol  
40 Parts Isobutyl acetate  
15 Parts Nitro-Cellulose (30% isopropanol) 25% in butyl acetate*

# HOSTANOL HW 30 WOOD STAIN SHADE LIBRARY

The wood stain shade library shows some application examples of Hostanol HW 30 pigment preparation in pure shade and a selection of typical wood shades which are available by mixing different products of Hostanol HW 30.

## HOSTANOL HW 30 PIGMENT PREPARATIONS

Hostanol HW 30 pigment preparations are produced as non-dusting granules. They are based on low-viscosity polyvinyl-butyral as polymeric binder. Hostanol HW 30 shows excellent solubility in alcohols and glycol ethers as well as in mixtures of alcohols and esters or in mixtures of alcohols, esters and ketones. While providing high tinting strength they show excellent transparency and brilliance in shade.

Recommended fields of application are solvent-based wood stains, alcohol-based marker inks, dry wipe inks for white-board markers, ink jet inks, coatings for glass colorations and aluminum foils.

## SPECIFICATIONS

The specifications of the Hostanol HW 30 range include narrow tolerances of gravimetric color strength as well as for colorimetric values dH and dC.

Gravimetric tinting strength	100% ± 5%
dH (Hue)	0 ± 0.5
dC (Chroma)	0 ± 0.8

## PIGMENT CONTENT

The approximate pigment content in % must be regarded solely as guide value. The crucial criterion for standardization is tinting strength.

## PARTICLE SIZE DISTRIBUTION

Determination of particle size distribution was performed by transmission electron microscope (TEM).

The average particle size given as  $d_{50}$ -value is indicating that 50% of pigment particles are larger and 50% of pigment particles are smaller than  $d_{50}$ -value.

## FASTNESS PROPERTIES

For determination of fastness properties solvent-based wood stains containing 3% Hostanol HW 30 were applied on oak. These wood stains were prepared out of 10% stock solutions of Hostanol HW 30 according to method described herein (see following paragraph).

## PREPARATION OF 10% STOCK SOLUTION OF HOSTANOL HW 30

10 Parts Hostanol HW 30  
90 Parts Solvent mixture\*

\*Solvent mixture:

50 Parts 1-Methoxy-2-propanol  
30 Parts Isobutyl acetate  
20 Parts Ethanol

We strongly recommend the use of a high speed dissolver to ensure good homogenization for having stable solutions.

Stirring time should be at least one hour, with speed of 3000 rpm. Subsequent filtration is recommended.

## **PREPARATION OF 3% READY-TO-USE SOLVENT-BASED WOOD STAIN**

30 Parts Stock solution  
70 Parts Base wood stain \*

\* Base wood stain:

25 Parts Isopropanol  
20 Parts Isobutanol  
40 Parts Isobutyl acetate  
15 Parts Nitro-Cellulose  
(30% isopropanol) 25% in butyl acetate

## **LIGHT FASTNESS**

Light fastness was determined according to DIN EN ISO 105-B02 (accelerated light fastness test, 8-step blue wool scale).

## **STABILITY AGAINST DIFFERENT PAINT SYSTEMS**

Tests were performed on 3% Hostanol HW 30 solvent-based wood stains on oak. After drying, half of each tested sample was over-sprayed with the respective paint system and assessed after 24 hours at room temperature.

The assessment was made on the basis of change in shade and tinting strength relative to 5-step grey scale.

## **FASTNESS TO OVER-PAINTING**

Tests were performed on 3% Hostanol HW 30 solvent-based wood stains on oak. After drying, half of each tested sample was over-sprayed with white nitro-cellulose lacquer and assessed after 24 hours at room temperature.

The staining of white nitro-cellulose lacquer was made on the basis of change in shade and tinting strength relative to 5-step grey scale.

## **HOSTANOL HW 30 WOOD STAIN SHADE LIBRARY**

This Wood Stain Shade Library has been prepared to reflect the broad spectrum of typical wood shades which can be produced using our Hostanol HW 30 pigment preparations.

## **ILLUSTRATIONS**

The pure shades of Hostanol HW 30 and respective wood shades illustrated here were produced by applying solvent based wood stains containing Hostanol HW 30 on ash-veneer. Slight shade deviations are possible. The wooden panels cannot be used for testing coloristic or fastness properties.

The pure shades of Hostanol HW 30 pigment preparations are illustrated containing 3% of Hostanol HW 30.

The wood shades presented were prepared according to amounts given in respective guide recipes. After drying all stained wood panels were over-coated with a NC-coat.

Stain colors are affected by the color of wood on which they are applied. On different types of wood different shades may result by the given formulations.

## TABLE OF PROPERTIES

### FASTNESS AND OTHER PROPERTIES

Product name	Pigment Content	Particle size distribution
<b>HOSTANOL HW 30</b>		
	[%]	d <sub>50</sub> [nm]
<b>YELLOW HR</b>	50	≤75
<b>RED F5RK</b>	50	<250
<b>BLUE B2G</b>	50	<100
<b>BROWN HFR</b>	50	≤75
<b>BLACK R</b>	40	≤75
<b>WHITE T</b>	70	<250

### STABILITY AGAINST DIFFERENT PAINT SYSTEMS

Light fastness	NC-lacquer	Acid-curing lacquer	Polyester lacquer	Polyurethane lacquer	Fastness to Over-painting
6-7	5	5	5	5	5
6	5	5	5	5	5
8	5	5	5	5	5
8	5	5	5	5	5
8	5	5	5	5	5
8	5	5	5	5	5



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