

Wanol Series for Flexible Polyol

Conventional Flexible Polyol

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
F3056	Clear liquid	400-600	≤0.05	≤3	5-7	56±1.5
F3156D	Clear liquid	450-750	≤0.05	/	6-8	56±1.5
F3147	Clear liquid	500-700	≤0.05	≤3	5-7	47.5±1.5
F3330H	Clear liquid	350-550	≤0.05	≤3	5-7	56±2

High Resilience Polyol

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
F3135	Clear liquid	800-1000	≤0.05	≤3	5-7	34±1.5
F3140	Clear liquid	800-1200	≤0.05	≤7	5-7	41.5±2
F3160	Clear liquid	1000-1300	≤0.05	≤3	5-7	28±1.5
F3170A	Clear liquid	1500-2000	≤0.05	/	7-9	22±1.5
F3180	Clear liquid	1100-1500	≤0.05	≤3	5-7	32±1.5

Viscoelastic Polyol

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
S3007	Clear liquid	190-350	≤0.05	≤5	5-7	245±15
F3150A	Clear liquid	1000-1500	≤0.05	≤7	5-7	34±2

Amine Based Polyol

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
F4037	Clear liquid	500-700	≤0.05	≤5	8.5-10.5	60±3

Polymer Polyol

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
F2140P	White, opaque, viscous liquid	≤5500	≤0.10	/	6-9	21±1.5
F3145P	White, opaque, viscous liquid	≤5000	≤0.10	/	6-9	30±2
F3148P	White, opaque, viscous liquid	≤6000	≤0.10	/	6-9	27±2

Bio-based Polyol

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	Bio-based Carbon Content(%)	pH Value	OHV(mgKOH/g)
FB340	Clear liquid	500-800	≤0.05	36-40	5-8	56±1.5
FB350	Clear liquid	500-800	≤0.05	48-52	5-8	76±1.5
FB390	Clear liquid	520-780	≤0.05	89-93	6-8	145±5



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Statement

We recommend all customers to use our products on the basis of the detailed data in this Material Safety Data Sheet (MSDS). We also suggest contacting us to confirm the product features before application. We believe that these suggestions and data are authentic and reliable. The information in this technical data sheet, express or implied, regarding product features, application, quality, safety, product specification, merchantability, and applicability of specific use is only for reference. No warranty is given. Information provided should not be regarded as the permission for implement of patent technology, also should not be regarded as inducement to implement the patent technology without the owner's authorization.



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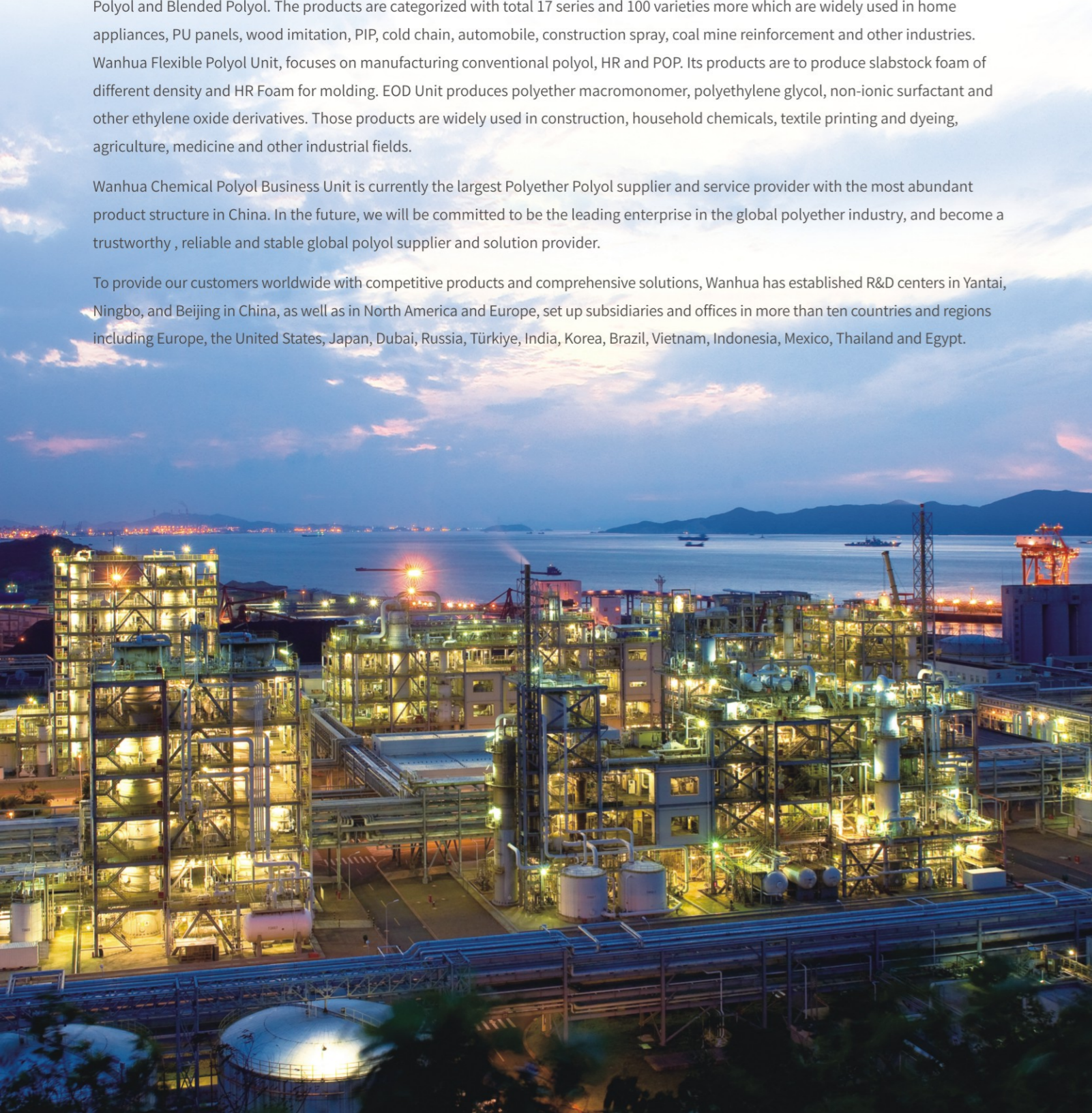
Wanhua Chemical Polyol Series

The Polyol Business Unit covers three platforms including WANHUA RONGWEI CO., LTD., WANHUA FLEXIBLE POLYOL UNIT and EOD (ethylene oxide derivatives) products. The main businesses of Rongwei operate three plants located at Yantai, Foshan and Ningbo for Rigid , CASE Polyol and Blended Polyol. The products are categorized with total 17 series and 100 varieties more which are widely used in home appliances, PU panels, wood imitation, PIP, cold chain, automobile, construction spray, coal mine reinforcement and other industries.

Wanhua Flexible Polyol Unit, focuses on manufacturing conventional polyol, HR and POP. Its products are to produce slabstock foam of different density and HR Foam for molding. EOD Unit produces polyether macromonomer, polyethylene glycol, non-ionic surfactant and other ethylene oxide derivatives. Those products are widely used in construction, household chemicals, textile printing and dyeing, agriculture, medicine and other industrial fields.

Wanhua Chemical Polyol Business Unit is currently the largest Polyether Polyol supplier and service provider with the most abundant product structure in China. In the future, we will be committed to be the leading enterprise in the global polyether industry, and become a trustworthy , reliable and stable global polyol supplier and solution provider.

To provide our customers worldwide with competitive products and comprehensive solutions, Wanhua has established R&D centers in Yantai, Ningbo, and Beijing in China, as well as in North America and Europe, set up subsidiaries and offices in more than ten countries and regions including Europe, the United States, Japan, Dubai, Russia, Türkiye, India, Korea, Brazil, Vietnam, Indonesia, Mexico, Thailand and Egypt.



Wanol Series for Rigid Polyol

Glycerol Based

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
R2303A	Clear liquid	720-1080	≤0.08	≤20	5-7	650±15
R2303	Clear liquid	400-800	≤0.08	≤8	5-7	560±15
R2304	Clear liquid	300-500	≤0.08	≤8	5-7	415±10
R2305	Clear liquid	200-400	≤0.08	≤8	5-7	335±10
R2307	Clear liquid	190-350	≤0.15	≤50	4-7	245±15
R2310	Clear liquid	200-300	≤0.05	≤5	5-7	168±5

Sorbitol Based

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
R2490	Colorless or Light Yellow	9200-11800	≤0.15	/	9-11.5	500±15
R6250	Light Yellow to Dark Yellow	25000-39000	≤0.1	800-1100	7.5-10	500±15

Amine Based

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
R4040	Light Yellow to Reddish brown	15000-22000	≤0.07	≤50	7-10	375±15

Flame Retarded Polyol

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
FR-130	Light Yellow to Yellow	≤800	≤0.15	/	/	110±10

Sucrose Based

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
R2450A	Light Yellow to Dark Yellow	5200-8200	≤0.15	/	9-11.5	490±15
R4110	Light Yellow to Dark Yellow	2500-3800	≤0.15	/	9-11.5	450±15
R4110H	Light Yellow to Dark Yellow	3200-4400	≤0.15	/	9-11.5	470±15
R420	Light Yellow to Dark Yellow	5500-8500	≤0.15	≤50	4-7	430±15
R8241	Light Yellow to Dark Yellow	5000-7000	≤0.15	/	9-11.5	410±20
R8245	Light Yellow to Dark Yellow	28000-36000	≤0.15	≤50	4.5-7	450±15
R8336	Light Yellow to Dark Yellow	2700-4000	≤0.15	≤50	4-7	360±15
R8338	Light Yellow to Dark Yellow	7500-10000	≤0.15	≤50	4.5-7	380±15
R8345B	Yellow to Dark Yellow	4100-5400	≤0.07	≤50	4.5-7	450±15
R8349	Light Yellow to Dark Yellow	8500-12000	≤0.15	≤50	4-7	490±20

Wanol Series for CASE Applications

CASE Polyol

Product Name	Appearance	Viscosity(mPa·s)	Water Content(%)	K+(ppm)	pH Value	OHV(mgKOH/g)
C2004	Clear liquid	40-140	≤0.05	≤3	5-7	280±10
C2010	Clear liquid	100-200	≤0.03	≤3	5-7	112±3.5
C2010D	Clear liquid	100-200	≤0.03	≤3	5-7.5	112±3.5
C2020	Clear liquid	270-370	≤0.03	≤3	5-7.5	56±1.5
C2030D	Clear liquid	500-650	≤0.03	≤3	5-7.5	37.5±2
C2056	Clear liquid	270-370	≤0.03	≤3	5-7	56±1.5
C2040D	Clear liquid	750-1250	≤0.03	≤3	5-7.5	28±1.5
C2080D	Clear liquid	2800-3500	≤0.02	/	6-8	14±0.5
C2107	Clear liquid	100-160	≤0.05	≤5	5-7	150±5
C2120	Clear liquid	300-400	≤0.05	≤5	5-7	57±2
C2130	Clear liquid	850-1050	≤0.05	≤3	5-7	33.5±1.5
C2140	Clear liquid	750-950	≤0.05	≤3	5-7	27.5±1.5
C2140F	Clear liquid	750-950	≤0.05	≤3	5-7	28.5±1.5
C2140N	Clear liquid	750-950	≤0.05	≤1	5-7	27.5±1.5
F3056D	Clear liquid	400-700	≤0.05	≤3	5-7.5	56±1.5