hair styling

selection guide







hair styling selection guide

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Multi-functionality in product attributes, innovation in formulation aesthetics and variety in product forms, are essential to meeting today's consumer needs in hair styling. Ashland's design and development of a highly diversified product portfolio enables the performance expected in these applications.





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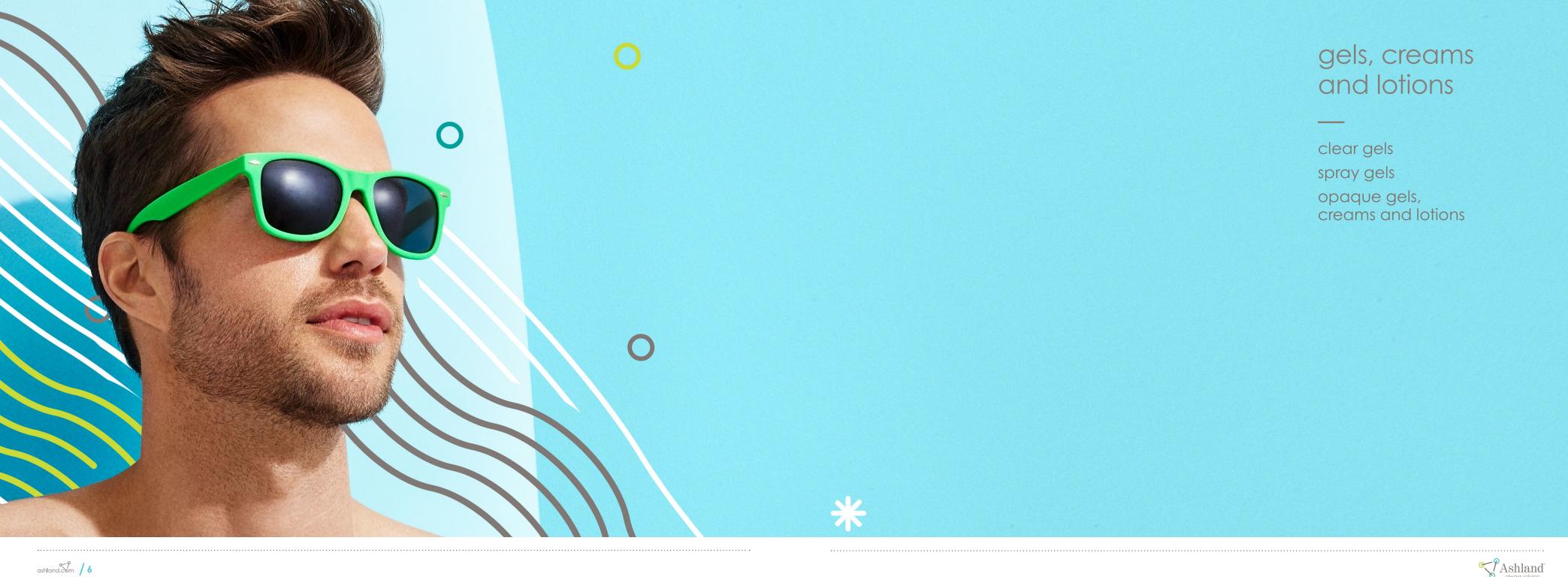
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key product function		charge	definition		
key production in	nonionic	anionic	pseudo cationic	amphoteric	end-use application
initial stiffness	PVP				pump and aerosol hair spray, spray mousses, creams, lotions, spray gel, Pump foamer/pastes/putties, glues
hold	PVP	gan†rez™ es			aerosols and non aerosol hair sprays and mousses
style control		gantrez es	advantage™lca,lca, s		aerosol and non aerosol hair spray and mousses
HHCR			advantage Ica,Ica, s copolymer 845-0 gafquat™ 755-0		hair spray only for advantage types copolymer and gafquat for mousses, clear gels and serums
shine		aquastyle™ 300	advantage Ica,Ica, s		aquastyle 300 for gels aerosol and non aerosol hair spray and mousses
body/volume				aquaflex™ xl 30	in pump sprays, clear gels, cream gels, not in hair spray aerosols , shampoos and conditioners
natural/flexible hold		aquastyle sh 100 gantrez es			aquastyle sh 100 in gels gantrez es in hair spray
non tacky		aquastyle sh 100	copolymer 845- o styleze™ cc 10		aquastyle sh 100 for gels copolymer 845-0 for mousses, clear gels styleze cc 10 for mousses, styling sprays, clear gels and conditioning rinse
thermal protection			styleze cc 10 styleze w gafquat 755		aquastyle sh 100 for gels copolymer 845-0 for mousses, clear gels styleze cc 10 for mousses, styling sprays, clear gels and conditioning rinse

styling polymers







		key	
excellent	good	fair	not availa

	al mother		hold		film pr	operty	shine	ser	sory	lavel	
trade name	clarity in carbomer	initial styling signal	HHCR	durability	flexible	stiff	dry hair	degree of tack (during dry down)	hair/dry	use level (solids)	special features
PVP k-15								Medium	Raspy	0.25-6.0%	
PVP k-30								Medium	Raspy	0.25-6.0%	
PVP k-30 solution								Medium	Raspy	0.25-6.0%	
PVP k-60								High	Raspy	0.25-6.0%	Stiffness and tack/styling signal increases with K value; K-90 and K-120 have high yield value for sculpting
PVP k-90								High	Raspy	0.25-3.0%	
PVP k-90 solution								High	Raspy	0.25-3.0%	
PVP k-120								High	Raspy	0.25-3.0%	
PVP/VA S-630								Medium	Less raspy than PVP K-30	0.5-6.0%	
PVP/VA e-635; W-635								Medium	Less raspy than PVP K-30	0.5-6.0%	More flexible than PVP; (W) in alcohol-free formulas
PVP/VA e-735; W-735								Medium	Less raspy than PVP K-30	0.5-6.0%	
copolymer 845; 845-0								Low	Smooth	0.2-4.0%	High yield value for sculpting, detangling properties with
gafquat ™ 755n; 755n-o polymer								Low	Smooth	0.25-4.0%	Natrosol™ and N-Hance™ HP-40
aquaflex ™ xI-30 polymer								Medium	Smooth	0.25-4.0%	Long-lasting volume and root boost, can be used in alcohol-free formulations
aquastyle ™ sh-100 polymer								Low	Smooth	0.5-2.0%	Anti-frizz benefits, no flaking, reduces the amount of carbomer required to thicken gels
aquastyle 300 polymer								High	Smooth	0.25-5.0%	Anti-frizz benefits
aquastyle 300 af polymer								High	Smooth	0.25-5.0%	Anti-frizz benefits, enables alcohol-free claims

clear gels

PVP k-15

PVP k-30

PVP k-30 solution

PVP k-60

PVP k-90

PVP k-90 solution

PVP k-120

PVP/VA S-630

PVP/VA e-635; W-635

PVP/VA e-735; W-735

copolymer 845; 845-0

gafquat™ 755n; 755n-o polymer

aquaflex™ xl-30 polymer

aquastyle™ sh-100 polymer

aquastyle 300 polymer

aquastyle 300 af polymer

Polymer performance and features may vary depending on use level and interaction with other ingredients in the formula.

		key		
excellent	good		fair	not availab

			hold		film pı	operty	shine	Se	ensory		
trade name	clarity in carbomer	initial styling signal	HHCR	durability	flexible	stiff	dry hair	degree of tack (during dry down)	hair/dry	use level (solids)	special features
PVP k-15								Medium	Raspy	0.25-6.0%	
PVP k-30								Medium	Raspy	0.25-6.0%	
PVP k-30 solution								Medium	Raspy	0.25-6.0%	Stiffness and tack/styling signal increases with K value
PVP k-60								High	Raspy	0.25-6.0%	
PVP k-90								High	Raspy	0.25-3.0%	
PVP/VA s-630								Medium	Less Raspy than PVP K-30	0.5-6.0%	
PVP/VA e-635; w-635								Medium	Less Raspy than PVP K-30	0.5-6.0%	More flexible than PVP; (W) in alcohol-free formulas
PVP/VA e-735; w-735								Medium	Less Raspy than PVP K-30	0.5-6.0%	
copolyme r 845; 845-0								Low	Smooth	0.2-4.0%	High yield value for sculpting, low tack after dry
gafqua t™ 440 polymer								Low	Smooth	0.2-8.0%	Smooth, silky feel
gafquat 755n; 755n-o polymer								Low	Smooth	0.25-4.0%	Smooth flexible hold, high yield value for sculpting, low tack after dry, thermal/mechanical protection
gafquat hs-100; hs-100-o polymer								Low	Smooth	2.0-4.0%	Excellent stability at pH extremes
advantage™ s polymer								High	Smooth	0.5-4.0%	High shine, easy and quick dispersibility
aquaflex ™ xI- 30 polymer								Medium	Smooth	0.25-4.0%	Long-lasting volume and root boost, alcohol-free formulations
aquastyle ™ sh-100 polymer								Low	Smooth	up to 0.75%	Anti-frizz benefits, no flaking, reduces the amount of carbomer required to thicken gels
aquastyle 300 polymer								High	Smooth	0.25-5.0%	Anti-frizz benefits
aquastyle 300 af polymer								High	Smooth	0.25-5.0%	Anti-frizz benefits, enables alcohol-free claims

spray gels

PVP k-15

PVP k-30

PVP k-30 solution

PVP k-60

PVP k-90

PVP/VA s-630

PVP/VA e-635; w-635

PVP/VA e-735; w-735

copolymer 845; 845-0

gafquat™ 440 polymer

gafquat™ 755n; 755n-o polymer

gafquat hs-100; hs-100-o polymer

advantage™ s polymer

aquaflex™ xl-30 polymer

aquastyle™ sh-100 polymer

aquastyle™ 300 polymer

aquastyle 300 af polymer

Polymer performance and features may vary depending on use level and interaction with other ingredients in the formula.

		key		
excellent	good		fair	not availabl

		hold		shine	sei	nsory		
trade name	initial styling signal	HHCR	durability	dry hair	degree of tack (during dry down)	hair/dry	use level (solids)	special features
PVP k-15					Medium	Raspy	0.25-6.0%	
PVP k-30					Medium	Raspy	0.25-6.0%	
PVP k-30 solution					Medium	Raspy	0.25-6.0%	
PVP k-60					Medium	Raspy	0.25-6.0%	Stiffness and tack/styling signal increases with K value
PVP k-90					Medium	Raspy	0.25-3.0%	
PVP k-90 solution					Medium	Raspy	0.25-3.0%	
PVP k-120					Medium	Raspy	0.25-3.0%	
PVP/VA s-630					Medium	Less Raspy than PVP K-30	0.5-6.0%	
PVP/VA e-635; w-635					Medium	Less Raspy than PVP K-30	0.5-6.0%	More flexible than PVP;(W) in alcohol-free formulas
PVP/VA e-735; w-735					Medium	Less Raspy than PVP K-30	0.5-6.0%	
copolymer 845; 845-0					Low	Smooth	0.2-4.0%	Secret for the hold high yield value for southing. Conclumn or 027 has a lower took during day down than 045
copolymer 937					Low	Smooth	0.5-4.0%	Smooth flexible hold, high yield value for sculpting, Copolymer 937 has a lower tack during dry down than 845
gafquat™ 440 polymer					Low	Smooth	0.25-8.0%	Smooth, silky feel
gafquat 755n; 755n-o polymer					Low	Smooth	0.25-4.0%	Thermal/mechanical protection
gafquat hs-100; hs-100-o polymer					Low	Smooth	2.0-4.0%	Excellent stability at pH extremes
advantage ™s polymer					High	Smooth	0.5-4.0%	Facus and aviolation assistitive angelos alookal free styling
advantage s solution polymer					High	Smooth	0.5-4.0%	Easy and quick dispersibility, enables alcohol-free styling
aquaflex™ xl-30 polymer					Medium	Smooth	0.25-4.0%	Long-lasting volume and root boost, alcohol-free formulations
styleze™ cc10 polymer					Medium	Smooth	0.25-2.0%	Thermal protection, clean feel
styleze w-17 polymer					Medium	Smooth	0.25-2.0%	Color protection, thermal protection, clean feel
aquastyle™ sh-100 polymer					Low	Smooth	0.5-2.0%	Anti-frizz benefits, no flaking, reduces the amount of carbomer required to thicken gels
aquastyle 300 polymer					High	Smooth	0.25-5.0%	Anti-frizz benefits
aquastyle 300 af polymer					High	Smooth	0.25-5.0%	Anti-frizz benefits, enables alcohol-free claims

opaque gels, creams and lotions

PVP k-15

PVP k-30

PVP k-30 solution

PVP k-60

PVP k-90

PVP k-90 solution

PVP k-120

PVP/VA s-630

PVP/VA e-635; w-635

PVP/VA e-735; w-735

copolymer 845; 845-0

copolymer 937

gafquat™ 440 polymer

gafquat 755n; 755n-o polymer

gafquat hs-100; hs-100-o polymer

advantage™ s polymer

advantage s solution polymer

aquaflex™ xl-30 polymer

styleze™ cc10 polymer

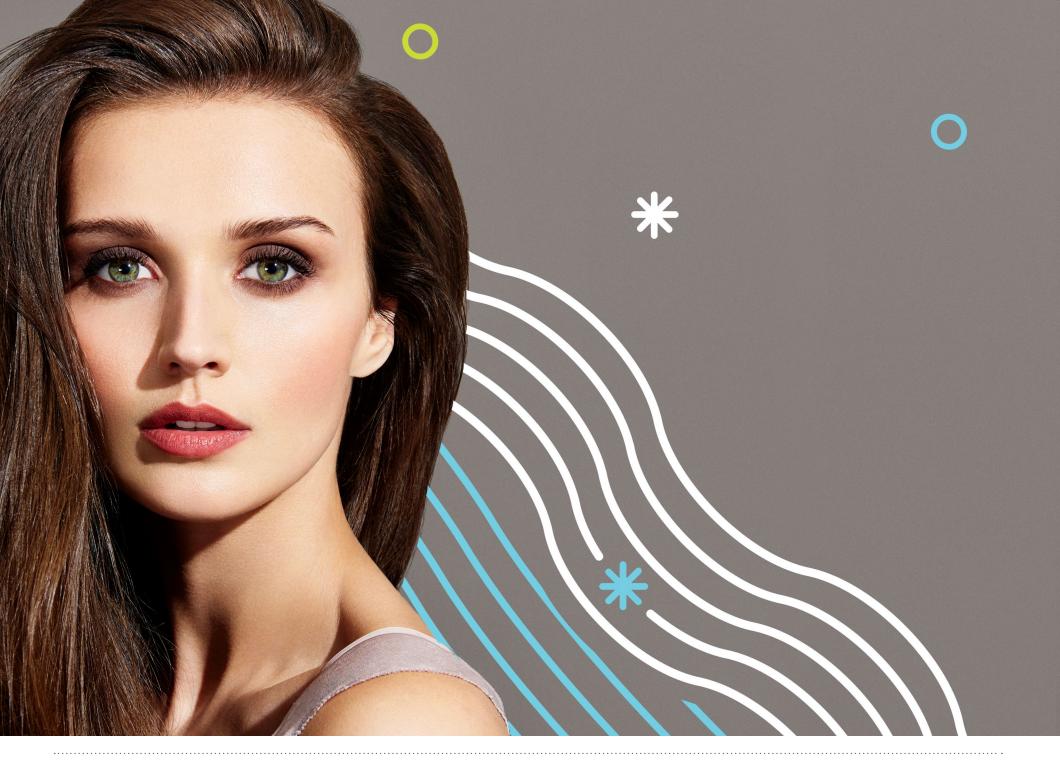
styleze w-17 polymer

aquastyle™ sh-100 polymer

aquastyle 300 polymer

aquastyle 300 af polymer





hair sprays

aerosol low VOC hairsprays aerosol high VOC hairsprays non-aerosol hairsprays



		key	
excellent	good	fair	not available

	propellant	tolerance	film pro	operty	ho	old	sensory		use level		
trade name	hydrofluorocarbon (152a)	dimethylether	flexible	stiff	HHCR	durability	hair/dry	spray aesthetics	(solids)	special features	
advantage ™ Ic-a polymer									0.5-4.0%	Excellent shine	
advantage Ic-e polymer ¹									0.5-4.0%	Superior wetting agent, excellent shine	
advantage s polymer									0.5-4.0%		
advantage s solution polymer									0.5-4.0%	Excellent shine, quick dispersability, alchohol-free styling	
advantage plus polymer									0.5-5.0%	Improves performance when used in conjunction with Gantrez products	
advantage 4910 polymer									0.5-5.0%	Can be used to formulate anhydrous hydroalcoholic and water based systems	
aquaflex™ fx-64 polymer									0.25-5.0%	Good curl memory, provides shine	
aquaflex fx-64 re polymer									0.25-5.0%	Good curl memory, provides shine, reduced alcohol content to enable low VOC formulations	
aquaflex sf-40 polymer									1.0-5.0%	Provides 'natural feel'hold	
gantrez ™ a-425 polymer									0.5-7.0%		
gantrez es-225 polymer									0.5-7.0%		
gantrez es-335 polymer									0.5-7.0%	The progression from Gantrez ES-225 through ES-335 to ES-425/435 leads to a softer film,	
gantrez es-425 polymer									0.5–7.0%	increasing humidity resistance and better compatibility with propellants	
gantrez es-435 polymer									0.5–7.0%		
gantrez sp-215 polymer									0.5–7.0%	Designed for use in stiffer, harder holding products, ideal in high solid pump sprays	
omnirez™ 2000 polymer									0.5-8.0%	Excellent shine, can be used in water-based pump sprays	

¹Available in EU only

Polymer performance and features may vary depending on use level and interaction with other ingredients in the formula.

aerosol low VOC hairsprays

advantage™ lc-a polymer **advantage** lc-e polymer¹ advantage s polymer advantage s solution polymer advantage plus polymer advantage 4910 polymer **aquaflex**™ fx-64 polymer aquaflex fx-64 re polymer aquaflex sf-40 polymer **gantrez**™ a-425 polymer gantrez es-225 polymer gantrez es-335 polymer gantrez es-425 polymer gantrez es-435 polymer gantrez sp-215 polymer omnirez™ 2000 polymer



	propellant	tolerance	film pr	operty	h	old	sensory				
trade name	hydrocarbon (propane/butane)	dimethylether	flexible	stiff	HHCR	durability	hair/dry	spray aesthetics	use level (solids)	special features	
advantage ™ Ic-a polymer									0.5-4.0%	Excellent shine	
advantage Ic-e polymer ¹									0.5-4.0%	Superior wetting agent, excellent shine	
advantage s polymer									0.5-4.0%		
advantage s solution polymer									0.5-4.0%	Excellent shine, quick dispersability, alchohol-free styling	
advantage plus polymer									0.5-5.0%	Improves performance when used in conjunction with Gantrez products	
advantage 4910 polymer									0.5-5.0%	Can be used to formulate anhydrous hydroalcoholic and water based systems	
aquaflex™ fx-64 polymer									0.25-5.0%	Good curl memory, provides shine	
aquaflex sf-40 polymer									1.0-5.0%	Provides "natural feel" hold	
gantrez ™ a-425 polymer									0.5-7.0%		
gantrez es-225 polymer									0.5-7.0%		
gantrez es-335 polymer									0.5-7.0%	The progression from Gantrez ES-225 through ES-335 to ES-425/435 leads to a softer film,	
gantrez es-425 polymer									0.5-7.0%	increasing humidity resistance and better compatibility with propellants	
gantrez es-435 polymer									0.5-7.0%		
gantrez sp-215 polymer									0.5-7.0%	Designed for use in stiffer, harder holding products, ideal in high solid pump sprays	
PVP K-15									0.25-6.0%		
PVP K-15 solution									0.25-6.0%		
PVP K-30									0.25-6.0%	Stiffness and tack/styling signal increases with K value	
PVP K-30 solution									0.25-6.0%		
PVP/VA E-335									0.5-6.0%		
PVP/VA E-535									0.5-6.0%		
PVP/VA I-335									0.5-6.0%	More flexible than PVP; Hydrocarbon tolerance:	
PVP/VA I-535									0.5-6.0%	PVP/VA E-735 > PVP/VA E-535 > PVP/VA E-335	
PVP/VA E-635									0.5-6.0%	1	
PVP/VA E-735									0.5-6.0%		

¹Available in EU only

Polymer performance and features may vary depending on use level and interaction with other ingredients in the formula.

aerosol high VOC hairsprays

advantage™ lc-a polymer **advantage** lc-e polymer¹

advantage s polymer

excellent good fair not available

advantage s solution polymer

advantage plus polymer

advantage 4910 polymer

aquaflex™ fx-64 polymer

aquaflex sf-40 polymer

gantrez™ a-425 polymer

gantrez es-225 polymer

gantrez es-335 polymer

gantrez es-425 polymer

gantrez es-435 polymer

gantrez sp-215 polymer

PVP k-15

PVP k-15 solution

PVP k-30

PVP k-30 solution

PVP/VA e-335

PVP/VA e-535

PVP/VA i-335

PVP/VA i-535

PVP/VA e-635

PVP/VA e-735



		key	
excellent	good	fair	not availab

	film p	film property		hold		sensory		
trade name	flexible	stiff	HHCR	durability	hair/dry	spray aesthetics	use level (solids)	special features
advantage ™ lc-a polymer							0.5-4.0%	Excellent shine
advantage Ic-e polymer ¹							0.5-4.0%	Superior wetting agent, excellent shine
advantage s polymer							0.5-4.0%	
advantage s solution polymer							0.5-4.0%	Excellent shine, quick dispersability, alcohol-free styling
advantage plus polymer							0.5-5.0%	Improves performance when used in conjunction with Gantrez products
advantage 4910 polymer							0.5-5.0%	Can be used to formulate anhydrous hydroalcoholic and water based systems
aquaflex™ fx-64 polymer							0.25-7.0%	Good curl memory, provides shine
aquaflex fx-64 re polymer							0.25-7.0%	Good curl memory, provides shine, reduced alcohol content to enable low VOC formulations
aquaflex sf-40 polymer							0.5-5.0%	Provides "natural feel" hold
gantrez ™ a-425 polymer							0.5-7.0%	
gantrez es-225 polymer							0.5-7.0%	
gantrez es-335 polymer							0.5-7.0%	the progression from gantrez es-225 through es-335 to es-425/435 leads to a softer film, increasing humidity resistance and better compatibility with propellants
gantrez es-425 polymer							0.5-7.0%	increasing humidity resistance and better compatibility with propellants
gantrez es-435 polymer							0.5-7.0%	
gantrez sp-215 polymer							0.5-7.0%	
omnirez™ 2000 polymer							0.5-8.0%	excellent shine
PVP k-15							0.25-6.0%	
PVP k-15 solution							0.25-6.0%	Ctiffness and track (at ding signal in oranges with K value
PVP k-30							0.25-6.0%	Stiffness and tack/styling signal increases with K value
PVP k-30 solution							0.25-6.0%	
PVP/VA e-335							0.5-6.0%	
PVP/VA e-535							0.5-6.0%	
PVP/VA i-335							0.5-6.0%	Mars flexible than DVD
PVP/VA i-535							0.5-6.0%	More flexible than PVP
PVP/VA e-635							0.5-6.0%	
PVP/VA e-735							0.5-6.0%	
¹ Available in EU only							•	

Polymer performance and features may vary depending on use level and interaction with other ingredients in the formula.

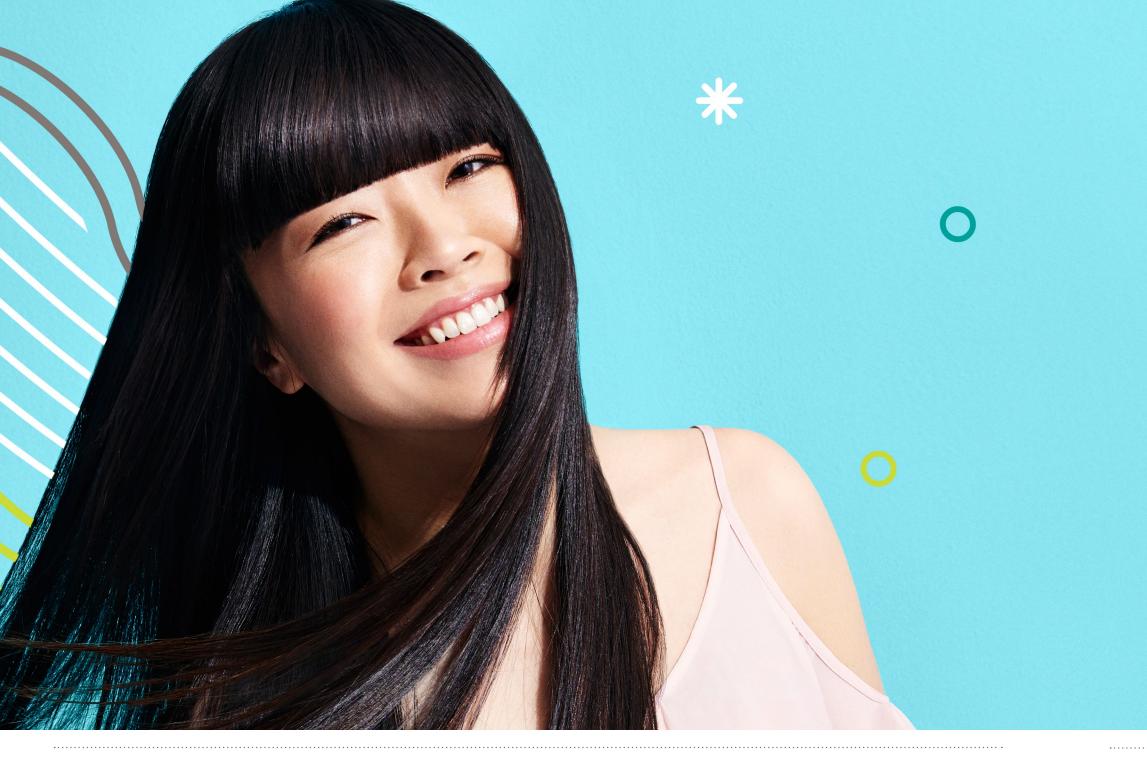
non-aerosol hairsprays

advantage™ lc-a polymer advantage lc-e polymer¹ advantage s polymer advantage s solution polymer advantage plus polymer advantage 4910 polymer aquaflex™ fx-64 polymer aquaflex fx-64 re polymer aquaflex sf-40 polymer **gantrez**™ a-425 polymer gantrez es-225 polymer gantrez es-335 polymer gantrez es-425 polymer gantrez es-435 polymer gantrez sp-215 polymer omnirez™ 2000 polymer **PVP** k-15 **PVP** k-15 solution **PVP** k-30 **PVP** k-30 solution **PVP/VA** e-335 **PVP/VA** e-535

PVP/VA i-335 **PVP/VA** i-535

PVP/VA e-635 **PVP/VA** e-735

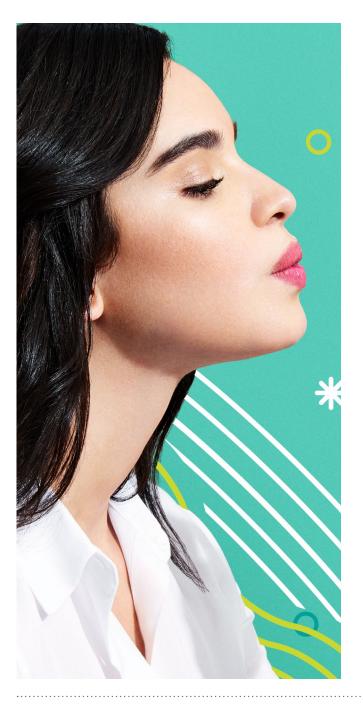




mousse

mousse classifications
aerosol low VOC mousses
aerosol high VOC mousses
non-aerosol mousses





trade name	styling	conditioning
advantage ™s polymer		
advantage s solution polymer		
advantage 4910 polymer		
aquaflex™ fx-64 polymer		
aquaflex fx-64 re polymer		
aquaflex xl- 30 polymer		
aquastyle™ 300 polymer		
aquastyle 300 af polymer		
copolymer 845; 845-0		
copolymer 937		
copolymer 958		
gafquat™ 440 polymer		
gafquat 755n; 755n-o polymer		
gafquat hs-100; hs-100-o polymer		
gantrez ™ a-425 polymer		
gantrez es-225 polymer		
gantrez es-335 polymer		

Polymer performance and features may vary depending on use level and interaction with other ingredients in the formula.

Other additives can impact the tack and feel of the mousse formulations

Foam feel can be impacted by the packaging and the foam agent.

		key		
excellent	good		fair	not available

trade name	styling	conditioning
gantrez ™ es-425 polyme r		
gantrez es-435 polymer		
gantrez sp-215 polymer		
omnirez™ 2000 polymer		
pvp k-15		
pvp k-30		
pvp k-30 solution		
pvp k-60		
pvp k-90		
pvp k-90 solution		
pvp k-120		
pvp/va s-630		
pvp/va e-635; w-635		
pvp/va e-735; w-735		
styleze cc-10 polymer		
styleze w-17 polymer		

mousse classifications



	key						
excellent	good	fair	not availe				

		film property		sensory		l	
trade name	HHCR	stiff	flexible	degree of tack (during dry down)	hair/dry	use level (solids)	special features
advantage™ S polymer				High	Smooth	0.5-4.0%	High shine
advantage s solution polymer				High	Smooth	0.5-4.0%	High shine, enables alcohol-free styling
advantage 4910 polymer				Medium/High	Raspy	0.25-4.0%	Can be used to formulate anhydrous hydroalcoholic and water based systems
aquaflex™ xl-30 polymer				Medium	Smooth	0.25-4.0%	Volume and root boost, easy dispersibility
aquastyle™ 300 af polymer				High	Smooth	0.25-5.0%	Anti-frizz benefits, excellent shine
copolymer 845; 845-0				Low	Smooth	0.2-4.0%	High detangling, good slip
copolymer 937				Low	Smooth	0.2-4.0%	Higher cushion, ease of combing, better slip vs. Copolymer 845
gafquat ™ 440 polymer				Low	Smooth	0.25-8.0%	Builds body, enhances hair luster
gafquat 755n; 755n-o polymer				Low	Smooth	0.25-4.0%	Protection from damage caused by blow dryers, good detangling
gafquat hs-100; hs-100-o polymer				Low	Smooth	0.25-4.0%	Excellent stability at pH extremes, strengthens the foam ball and individual bubbles
omnirez™ 2000 polymer				Medium	Smooth	0.5-8.0%	Quick dispersion on hair
pvp/va s-630 polymer				High	Raspy	0.5-6.0%	Slightly stiffer than the PVP/VA W-635 and W-735 polymers
pvp/va w-635				High	Raspy	0.5-6.0%	
pvp/va w-735				High	Raspy	0.5-6.0%	Builds initial volume, quick dispersion on hair, less raspy than PVP polymers
styleze™ cc-10 polymer				Medium	Smooth	0.25-2.0%	Thermal protection, provides cushion, good detangling and strengthens the foam ball (provides shape/keeps integrity)
styleze w-17 polymer				Medium	Smooth	0.25-2.0%	Thermal protection, provides extra slip, durable, luxurious dense foam

Other additives can impact the tack and feel of the mousse formulations

aerosol low VOC mousses

advantage™ S polymer

advantage s solution polymer

advantage 4910 polymer

aquaflex™ xl-30 polymer

aquastyle™ 300 af polymer

copolymer 845; 845-0

copolymer 937

gafquat™ 440 polymer

gafquat 755n; 755n-o polymer

gafquat hs-100; hs-100-o polymer

omnirez™ 2000 polymer

pvp/va s-630 polymer

pvp/va w-635

pvp/va w-735

styleze™ cc-10 polymer

styleze w-17 polymer

Ashland always solving

		key	
excellent	good	fair	not availab

		film p	roperty	sensory			
trade name	HHCR	stiff	flexible	degree of tack (during dry down)	hair/dry	use level (solids)	special features
advantage ™ s polymer				High	Smooth	0.5-4.0%	High shine
advantage s solution polymer				High	Smooth	0.5-4.0%	High shine, enables alcohol-free styling
advantage 4910 polymer				Medium/High	Raspy	0.25-4.0%	Can be used to formulate anhydrous hydroalcoholic and water based systems
aquaflex™ fx-64 polymer				Medium	Smooth	0.25-5.0%	Good curl memory, provides shine
aquaflex xl-30 polymer				Medium	Smooth	0.25-4.0%	Volume and root boost, easy dispersibility
aquastyle ™ 300 polymer				High	Smooth	0.25-5.0%	Anti frizz han ofte aveallant shina
aquastyle 300 af polymer				High	Smooth	0.25-5.0%	Anti-frizz benefits, excellent shine
copolymer 845; 845-0				Low	Smooth	0.2-4.0%	High detangling, good slip
copolymer 937				Low	Smooth	0.2-4.0%	Higher cushion, ease of combing, better slip vs. Copolymer 845
copolymer 958				Low	Smooth	0.2-4.0%	Ease of combing
gafquat ™ 440 polymer				Low	Smooth	0.25-8.0%	Smooth, silky feel, high luster
gafquat 755n; 755n-o polymer				Low	Smooth	0.25-4.0%	Protection from damage caused by brushing while blow-drying
gafquat hs-100; hs-100-o polymer				Low	Smooth	2.0-4.0%	Excellent stability at pH extremes, strengthens the foam ball and individual bubbles
gantrez ™ a-425 polymer				High	Moderately Smooth	0.5-7.0%	Natural feel, high shine
gantrez es-225 polymer				High	Moderately Smooth	0.5-7.0%	
gantrez es-335 polymer				High	Moderately Smooth	0.5-7.0%	The progression from Gantrez ES-225 through ES-335 to ES-425/435 leads to a softer film,
gantrez es-425 polymer				High	Moderately Smooth	0.5-7.0%	increasing humidity resistance and better compatibility with propellants
gantrez es-435 polymer				High	Moderately Smooth	0.5-7.0%	
gantrez sp-215 polymer				High	Moderately Smooth	0.5-7.0%	Used in stiff, hard holding products
pvp/va s-630				High	Raspy	0.5-6.0%	Slightly stiffer than the PVP/VA W-635 and W-735 polymers
pvp/va w-635				High	Raspy	0.5-6.0%	Duille in Windows and in the discounting on the discounting the party of the party
pvp/va w-735				High	Raspy	0.5-6.0%	Builds initial volume, quick dispersion on hair, less raspy than PVP polymers
styleze™ cc-10 polymer				Medium	Smooth	0.25-2.0%	Thermal protection, provides cushion, good detangling and strengthens the foam ball (provides shape)
styleze w-17 polymer				Medium	Very Smooth	0.25-2.0%	Thermal protection, provides extra slip, durable, luxurious dense foam

Other additives can impact the tack and feel of the mousse formulations

Foam feel can be impacted by the packaging and the foam agent.

aerosol high VOC mousses

advantage™s polymer

advantage s solution polymer

advantage 4910 polymer

aquaflex™ fx-64 polymer

aquaflex xl-30 polymer

aquastyle™ 300 polymer

aquastyle 300 af polymer

copolymer 845; 845-0

copolymer 937

copolymer 958

gafquat™ 440 polymer

gafquat 755n; 755n-o polymer

gafquat hs-100; hs-100-o polymer

gantrez™ a-425 polymer

gantrez es-225 polymer

gantrez es-335 polymer

gantrez es-425 polymer

gantrez es-435 polymer

gantrez sp-215 polymer

pvp/va s-630

pvp/va w-635

pvp/va w-735

styleze™ cc-10 polymer

styleze w-17 polymer



	key						
excellent	good	fair	not availa				

		film property sensory					
trade name	HHCR	stiff	flexible	degree of tack (during dry down)	hair/dry	use level (solids)	special features
advantage ™ s polymer				High	Smooth	0.5-4.0%	High shine, alcohol-free styling
advantage s solution polymer				High	Smooth	0.5-4.0%	High shine
advantage 4910 polymer				Medium/High	Raspy	0.25-4.0%	Can be used to formulate anhydrous hydroalcoholic and water based systems
aquaflex™ fx-64 polymer				Medium	Smooth	0.25-7.0%	Good curl memory, provides shine
aquaflex fx-64 re polymer				Medium	Smooth	0.25-7.0%	Good curl memory, provides shine, reduced alcohol content to enable low VOC formulations
aquaflex xl-30 polymer				Low	Smooth	0.25-4.0%	Volume and root boost, easy dispersibility
aquastyle™ 300 polymer				High	Smooth	0.25-5.0%	Auti frizz han efte avac llant shina
aquastyle 300 af polymer				High	Smooth	0.25-5.0%	- Anti-frizz benefits, excellent shine
copolymer 845; 845-0				Low	Smooth	0.2-4.0%	High detangling, good slip
copolymer 937				Low	Smooth	0.2-4.0%	Higher cushion, ease of combing, better slip vs. Copolymer 845
copolymer 958				Low	Smooth	0.2-4.0%	Ease of combing
gafquat ™ 440 polymer				Low	Smooth	0.25-8.0%	Smooth, silky feel, high luster
gafquat 755n; 755n-o polymer				Low	Very Smooth	0.25-4.0%	Protection from damage caused by brushing while blow-drying
pvp k-15				Medium	Raspy	0.25-6.0%	
pvp k-30				Medium	Raspy	0.25-6.0%	
pvp k-30 solution				Medium	Raspy	0.25-6.0%	
pvp k-60				Medium	Raspy	0.25-6.0%	Stiffness and tack/styling signal increases with K value
pvp k-90				Medium	Raspy	0.25-3.0%	
pvp k-90 solution				Medium	Raspy	0.25-3.0%	
pvp k-120				Medium	Raspy	0.25-3.0%	
pvp/va s-630				Medium	Less Raspy than PVP	0.5-6.0%	Slightly stiffer than the PVP/VA W-635 and W-735 polymers
pvp/va w-635				Medium	Less Raspy than PVP	0.5-6.0%	Builds initial volume, quick dispersion on hair, less raspy than PVP polymers
styleze cc-10 polymer				Medium	Smooth	0.25-2.0%	Thermal protection, provides cushion, good detangling and strengthens the foam ball (provides shape)
styleze w-17 polymer				Medium	Very Smooth	0.25-2.0%	Thermal protection, provides extra slip, durable, luxurious dense foam

Other additives can impact the tack and feel of the mousse formulations

Foam feel can be impacted by the packaging and the foam agent.

non-aerosol mousses

advantage™ s polymer

advantage s solution polymer

advantage 4910 polymer

aquaflex™ fx-64 polymer

aquaflex fx-64 re polymer

aquaflex xl-30 polymer

aquastyle™ 300 polymer

aquastyle 300 af polymer

copolymer 845; 845-0

copolymer 937

copolymer 958

gafquat™ 440 polymer

gafquat 755n; 755n-o polymer

pvp k-15

pvp k-30

pvp k-30 solution

pvp k-60

pvp k-90

pvp k-90 solution

pvp k-120

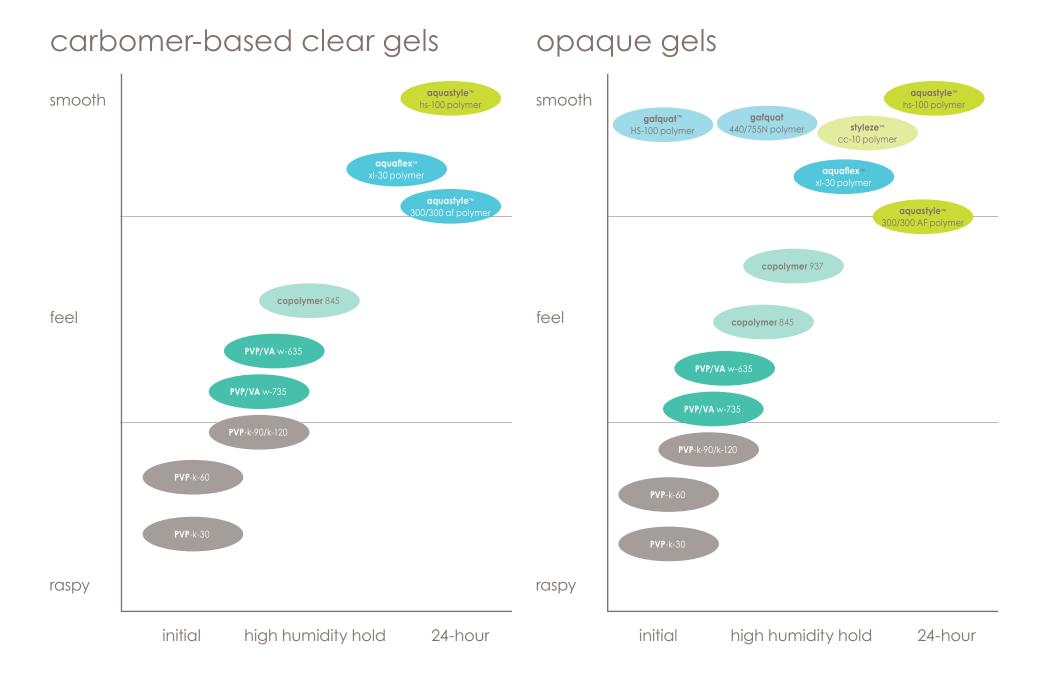
pvp/va s-630

pvp/va w-635

styleze™ cc-10 polymer

styleze w-17 polymer





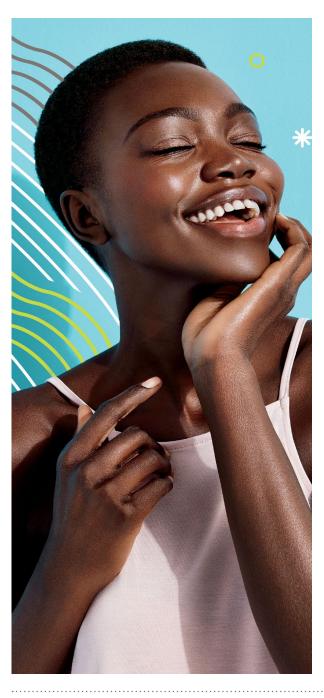
conditioning mousses



hair styling: perception maps

carbomer-based clear gels opaque gels conditioning mousses





trade name	INCI name
advantage™ lc-a polymer	Vinyl Caprolactam/VP/Dimethylaminoethyl Methacrylate Copolymer
advantage Ic-e polymer ¹	Vinyl Caprolactam/VP/Dimethylaminoethyl Methacrylate Copolymer (and) Lauryl Pyrrolidone
advantage s polymer	Vinyl Caprolactam/VP/Dimethylaminoethyl Methacrylate Copolymer
advantage plus polymer	VA/Butyl Maleate/Isobornyl Acrylate Copolymer
advantage 4910 polymer	Octylaurylamide/Acrylates/Butylaminoethyl/Methacrylate Copolymer
aquaflex™ fx-64 polymer	Isobutylene/Ethylmaleimide/Hydroxyethylmaleimide Copolymer
aquaflex fx-64 re polymer	lsobutylene/Ethylmaleimide/Hydroxyethylmaleimide Copolymer
aquaflex sf-40 polymer	VP/Vinyl Caprolactam/DMAPA Acrylates Copolymer
aquaflex xl-30 polymer	Polyimide-1
aquastyle™ sh-100 polymer	Acrylates Copolymer (and) Water
aquastyle 300 polymer	Polyquaternium-69
aquastyle 300 af polymer	Polyquaternium-69
copolymer 845; 845-0	VP/Dimethylaminoethylmethacrylate Copolymer
copolymer 937	VP/Dimethylaminoethylmethacrylate Copolymer
gafquat ™ 440 polymer	Polyquaternium-11
gafquat 755n; 755n-o polymer	Polyquaternium-11
gafquat hs-100; hs-100-o polymer	Polyquaternium-28
gantrez™ a-425 polymer ¹Available in EU only	Butyl Ester of PVM/MA Copolymer

trade name	NCI name
gantrez ™ es-225 polymer	Ethyl Ester of PVM/MA Copolymer
gantrez es-335 polymer	Isopropyl Ester of PVM/MA Copolymer
gantrez es-425 polymer	Butyl Ester of PVM/MA Copolymer
gantrez es-435 polymer	Butyl Ester of PVM/MA Copolymer
gantrez sp-215 polymer	Ethyl Ester of PVM/MA Copolymer
omnirez™ 2000 polymer	Ethyl Ester of PVM/MA Copolymer
PVP k-15	PVP
PVP k-30	PVP
PVP k-30 solution	PVP
PVP k-60	PVP
PVP k-90	PVP
PVP k-90 solution	PVP
PVP k-120	PVP
PVP s-630	VP/VA Copolymer
PVP e-335; I-335	VP/VA Copolymer
PVP/VA e-535; I-535	VP/VA Copolymer
PVP/VA e-635; W-635	VP/VA Copolymer
PVP/VA e-735; I-735; W-735	VP/VA Copolymer
Styleze cc-10 polymer	VP/DMAPA Acrylates Copolymer
Styleze™ w-17 polymer	Polyquaternium-55

product range





REGIONAL SALES OFFICES

North America

Wayne, NJ USA Tel: +1 800 505 8984 Fax: +1 973 628 3999

Latin America

São Paulo, Brazil Tel: +55 11 3649 0455 +55 11 3649 0468

Asia Pacific

Singapore Tel: +65 6775 5366 Fax: +65 6776 9690

Shanghai, P.R. China Tel: +86 21 6090 6688 Fax: +86 21 6090 6698

Europe

Tel: +41 52 560 5500 Tel: +49 (0) 2236 9649 264 +49 (0) 2236 9649 266 Fax: +49 (0) 2236 9649 295

Middle East, Africa

Cologne, Germany

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