Breakstem Systems

This chart aims to show you what surface finish options are possible to apply to our standard fastener types as "customer specials".

There are separate columns for the individual components such as the body and stem of breakstem rivets.

- If you want to colour-code the rivets, you may only need the body in a special finish as the stem colour will not be visible.
- For painted rivets, let us know the colour specification such as the "RAL" code if you know it. We can then match the colour precisely.
- We have many finish options for better corrosion resistance. Please contact us and our Application Engineers can help you choose the best solution for your needs.

Key to the symbols

Yes, this finish is technically proven and has been applied on this type of fastener (or fastener component) in the past. Note however a minimum order quantity may apply. The finish is technically possible but will require review by our Production Team to give you a price. Please submit an enquiry and we can start preparing a quote for you straight away. Sorry, this finish is not suitable for this type of fastener component). However we might have some alternative suggestions to meet your needs. Please contact us and let our Application Engineers help you to find a fastening solution. By an apply of polymers help you to find a	Key to the symbols																												
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Nelp you to find a fastening solution.	Q The finish is technically po	ossible but will	require	review	by ou	ır Prod	ductio	n Tea	m to giv	e yo	u a price.	Pleas	se sub	mit a	n enq	uiry a	nd we	can	start _l	orepa	ring a	quot	e for	you st	raight	away	<i>.</i>		
Surface Finish Component Base Material Colour Surface Finish Component Base Material Colour	N/A		pe of fa	astener	(or fa	stene	r com	pone	nt). How	/eve	r we migh	t have	some	e altei	native	e sugg	estio	ns to	meet	your	needs	s. Plea	ise co	ntact	us ar	nd let	our Ar	plication	Engineers
Surface Finish Component Base Material Colour \$\frac{1}{2}\$ \$\frac{1}{2}			Hou	rs to		Avdelmate	Avex®	(aluminium body)	Avex®	(Stock Book)	. Avibulb®	(0)	AVINOX	=	Ruidexex	® ```	¥0 = D	@``	IIIIEIIOCK	@ - T. F 1 1 1 1 1 1 1.	Klamp-IIte	7 C C C C C C C C C C C C C C C C C C C		::	Ivali rivets			Stavex®	. T-Lok®
Anodise and dye As required n/a n/a Q Y N/A Q N/A		Colour	white rust	red rust	Stem	Body	Stem		Stem	Body (steel)	Stem Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Stem
Black Delta®-Seal GZ Black 480 n/a Q Y N/A Q N/A N/A N/A N/A N/A N/A N/A N/A N/A Q Y N/A Q N/A	Aluminium			•							•					•													
Epoxy painting As required Natural (shiny) n/a n/a N	Anodise and dye	As required	n/a	n/a	Q	Υ	N/A	Q	N/A N	/A	N/A N/A	N/A	N/A	Q	Υ	Q	Q	Q	Υ	Q	Υ	Q	Q	Q	Υ	Q	Υ	N/A N/	A N/A N/A
Mechanical polishing Natural (shiny) n/a n/a Y N/A Q N/A N/A N/A N/A N/A Y Y N/A Y Y Y N/A Y Y N/A N/A N/A N/A N/A Y N/A	Black Delta®-Seal GZ	Black	480	n/a	Q	Υ	N/A	Q	N/A N	I/A	N/A N/A	N/A	N/A	Q	Υ	N/A	Q	Q	Υ	Q	Υ	N/A	Q	Q	Υ	Q	Υ	N/A N/	A N/A N/A
Mechanical polishing n/a n/a n/a Y N/A Q N/A	Epoxy painting	As required			Q	Υ	N/A	Q	N/A N	/A	N/A N/A	N/A	N/A	Q	Υ	Q	Q	Q	Υ	Q	Υ	Q	Q	Q	Υ	Q	Υ	N/A N/	A N/A N/A
Steel Black oxide Black oxide Q Y Q N/A Q<	Mechanical polishing		n/a	n/a	Υ	Υ	N/A	Q	N/A N	/A	N/A N/A	N/A	N/A	Υ	Υ	N/A	Υ	Υ	Υ	Υ	Υ	N/A	Υ	Υ	Υ	Υ	Υ	N/A N/	A N/A N/A
Black oxide	Silver Delta®-Seal GZ	Silver	480	n/a	Q	Υ	N/A	Q	N/A N	/A	N/A N/A	N/A	N/A	Q	Υ	N/A	Q	Q	Υ	Q	Υ	N/A	Q	Q	Υ	Q	Υ	N/A N/	A N/A N/A
Black oxide coating	Steel																												
Bright tin Silver n/a n/a Q Q N/A N/A N/A Q N/A	Black oxide	Black			Q	Υ	Q	N/A	Q	Q	Q Q	N/A	N/A	N/A	N/A	Q	Q	Q	Υ	N/A	N/A	Q	Q	Q	Υ	Q	Υ	QQ	QQ
	Black oxide coating	Black			Υ	Υ	Q	N/A	Q	Q	Q Q	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q Q	QQ
Clear Delta®-Seal Clear 480 Y Y N/A N/A N/A N/A Q N/A	Bright tin	Silver	n/a	n/a	Q	Q	N/A	N/A	N/A	Q	N/A Q	N/A	N/A	N/A	N/A	N/A	Q	Q	Q	N/A	N/A	N/A	Q	Q	Q	Q	Q	N/A Q	N/A Q
	Clear Delta®-Seal	Clear	480		Υ	Υ	N/A	N/A	N/A	Q	N/A Q	N/A	N/A	N/A	N/A	N/A	Q	Υ	Υ	N/A	N/A	N/A	Q	Υ	Υ	Υ	Υ	N/A Q	N/A Q



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		Hou	rs to		Avueiinate	Avex® (aluminium body)		Avex® (steel body)	@ 4	Avibuip	8,700 cir. V	AVIIIOX	Bulbexex®		Hemlok®	201101	@ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	III I I I I I I I I I I I I I I I I I	© Ti+o®	viallip-life	#10 d 0 0 0 M	Monobolic	11 11 11 11 11 11 11 11 11 11 11 11 11	Nall livels		Ų KIVEL	Stavex®	X	T-Lok®
Surface Finish Component Base Material Steel	Colour	white rust	red rust	Stem	Body	Stem	Dody (allu)	Stem Body (steel)	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem Body
Corrosion prevention of																													
unplated items				Υ	Υ	Q N/	A N	/A N/A	Q	Q	N/A	N/A	N/A I	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	Q Q
Electroplated zinc base coat + aluminium-rich organic top coat (Magni 560)	Silver/Grey		860	Q	Q	Q N/	Ά.	Q N/A	N/A	O	N/A	N/A	N/A N	N/A	N/A	O	Q	Q	N/A	N/A	N/A	Q	Q	Q	Q	Ô	N/A	Q	N/A Q
Epoxy painting	As required			Υ		N/A N/	ΆN	/A Y	N/A	Q	N/A	N/A	N/A I		N/A		Υ	_	N/A	N/A	N/A		Υ	Υ	Υ		N/A	•	N/A N/A
Heat treatment black oxide	Black/Blue			Υ	Υ	N/A N/	A N	/A N/A	N/A	N/A	N/A	N/A	N/A I	N/A	N/A	N/A	Υ	Υ	N/A	N/A	N/A	N/A	Υ	Υ	Υ	Υ	N/A	N/A	N/A N/A
Inorganic zinc-rich base coat + aluminium-rich top coat (Magni 565)	Silver/Grey		860	Υ	Υ	Q N/		Q N/A	Q	N/A	N/A	N/A	N/A N				Υ	Υ	N/A			N/A	Υ	Υ	Υ	Υ	,	N/A	Q N/A
Light blue Delta®-Seal Duplex	Blue			Q	Q	Q N/	Ά	Q Q	N/A	Q	N/A	N/A	N/A I	N/A	N/A	Q	Q	Q	N/A	N/A	N/A	Q	Q	Q	Q	Q	N/A	Q	N/A N/A
Mechanical aluminium/zinc + clear	Silver		96	Υ	Υ	N/A N/	A N	/A N/A	N/A	N/A	N/A	N/A	N/A N	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	N/A	N/A	N/A N/A
Mechanical zinc + clear passivation	Clear	72	240	Υ	Υ	N/A N/	A N	/A N/A	N/A	N/A	N/A	N/A	N/A N	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	N/A N/A
Mechanical zinc + clear passivation + top coat	Silver/Grey	72	384	Υ	Υ	Q N/	Ά.	Q Q	N/A	N/A	N/A	N/A	N/A N	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	Q Q
Molybdenum Disulphide Lube	Grey/Black			Q	Q	N/A N/	A N	/A N/A	N/A	N/A		N/A	N/A I	N/A	Q	Q	Q	Q	N/A	N/A	Q	Q	Q	Q	Q	Q	N/A	N/A	N/A N/A
Phosphate	Black		7	Q	Y	Y N/	Ά	QQ	Q	Q	N/A	N/A	N/A I	\sqrt{A}	Q	Q	Q	Υ	N/A	N/A	Q	Q	Q	Υ	Q	Υ	Q	Q	QQ



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		Hou	rs to	() () () () () () () () () () () () () (Avdelliate	Avex® (aluminium body)	Avex® (steel body)	Avibulb®	Avinox®	Bulbexex®	Hemlok®	Interlok®	Klamp-Tite®	Monobolt®	Nail rivets	Q Rivet	Stavex®	T-Lok®
Surface Finish Component Base Material	Colour	white rust	red rust	Stem	Body	Stem Body (alu)	Stem Body (steel)	Stem Body										
Steel																		
Phosphate + Delta®-Seal	As required		120	Υ	Υ	N/A N/A	N/A Q	N/A Q	N/A N/A	N/A N/A	N/A Q	YY	N/A N/A	N/A Q	YY	YY	N/A Q	N/A Q
Phosphate + Delta®-Tone + black Delta®-Seal GZ	Black (matt)		240	Υ	Υ	N/A N/A	N/A Q	N/A Q	N/A N/A	N/A N/A	N/A Q	YY	N/A N/A	N/A Q	ΥΥ	YY	N/A Q	N/A N/A
Phosphate + silver Delta®- Tone + silver Delta®-Seal	Silver/Grey	120	240	Υ	Υ	Q N/A	Q Q	N/A Q	N/A N/A	N/A N/A	N/A Q	ΥY	N/A N/A	N/A Q	ΥΥ	Y Y	N/A Q	Q N/A
Tin/Zinc self colour	Grey	48	1000	Υ	Υ	Q N/A	Q Q	Q Q	N/A N/A	N/A N/A	Q Q	YY	N/A N/A	Q Q	ΥΥ	Y Y	Q Q	Q Q
Zinc + black Delta®-Seal GZ	Black (matt)	120	240	Υ	Υ	N/A N/A	N/A Q	N/A Q	N/A N/A	N/A N/A	N/A Q	YY	N/A N/A	N/A Q	ΥΥ	Y Y	N/A Q	N/A N/A
Zinc + black passivation / Class 5 Type 11	Black (matt)	24	72	Q	Υ	Q N/A	Q Q	Q Q	N/A N/A	N/A N/A	Q Q	Q Y	N/A N/A	Q Q	Q Y	Q Y	Q Q	Q Q
Zinc + clear passivation	Clear	96	240	Υ	Υ	Y N/A	YY	Q Y	N/A N/A	N/A N/A	Q Q	YY	N/A N/A	Q Q	ΥΥ	ΥΥ	YY	Q Q
Zinc + clear passivation 18µm	Clear	96	240	Q	Υ	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	Q Y	N/A N/A	N/A N/A	Q Y	Q	N/A N/A	N/A N/A
Zinc (5µm) + clear passivation	Clear	72	120	Υ	Υ	Q N/A	Q Q	Y Q	N/A N/A	N/A N/A	Q Q	YY	N/A N/A	Q Q	YY	YY	Y Q	Y Q
Zinc + clear passivation + top seal	Clear	96	384	Υ	Υ	Q N/A	QQ	Q Q	N/A N/A	N/A N/A	Q Q	YY	N/A N/A	Q Q	ΥΥ	YY	Q Q	Q Q
Zinc (5µm) + clear passivation + top seal	Clear	96	120	Υ	Υ	Q N/A	Q Q	Q Q	N/A N/A	N/A N/A	Q Q	YY	N/A N/A	Q Q	ΥΥ	YY	QQ	Q Q
Zinc + clear passivation + leach and seal / Class 5 Type 1 (Ford S437)	Clear	120	400	Υ	Υ	Q N/A	Q Q	Q Q	N/A N/A	N/A N/A	Q Q	Y Y	N/A N/A	Q Q	YY	Y Y	Q Q	Q Q



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		Hou	rs to	@(+ () () () () () () () () ()	Avueimate	Avex® (aluminium body)		Avex® (steel body)	Avibulb®	GIBOING	® V	AVINOX		Bulbexex®	Hom lok®	NO III	®.1 • 1: • + • 1	IIILETIOK	Klomp Ti+o®	Namp-me	MACCOLI+®	INIOI IODOIL.		Nall rivers	tovia O	ל ויועפר	Ctaylov®	Staves	T-Lok®
Surface Finish Component Base Material	Colour	white rust	red rust	Stem	Body	Stem	C+O	Body (steel)	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem
Steel																													
Zinc + clear passivation + top seal/torque modifier	Clear	96	240	Υ	Υ	N/A N/	A N	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	N/A	N/A	N/A N/A
Zinc + silver Delta®-Seal	Silver/Grey	240	480	Υ	Υ	N/A N/	A N	/A Q	N/A	Q	N/A	N/A	N/A	N/A	N/A	Q	Υ	Υ	N/A	N/A	N/A	Q	Υ	Υ	Υ	Υ	N/A	Q	N/A N/A
Zinc phosphate (dry)	Grey/Black			Q		N/A N/	A N	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	Q	Q	Q		N/A	N/A	Q	Q	Q	Q	Q	Q	N/A	N/A	N/A N/A
Zinc/Iron + black passivation	Black	120	480	Q	Q	Q N/	Α () Q	Q	Q	N/A	N/A	N/A	N/A	Q	Q	Q		N/A		Q	Q	Q	Q	Q	Q	Q	Q	Q Q
Zinc/Nickel + black Delta®- Seal	Black (matt)	48	480	Q	Q	N/A N/	A N	/A Q	N/A	Q	N/A	N/A	N/A	N/A	N/A	Q	Q	Q	N/A		N/A	Q	Q	Q	Q	Q	N/A	Q	N/A Q
Zinc/Nickel + black passiva- tion + seal	Black	240	720	Υ	Υ	Q N/	A	Q Q	Q	Q	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	Q Q
Zinc/Nickel + clear passivation /C1T3	Clear	120	720	Υ	Υ	Q N/	A) Y	Q	Q	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	Q Q
Zinc/Nickel + clear passivation + seal	Clear	240	720	Υ	Υ	Q N/	A	Q	Q	Q	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	Q Q
Zinc/Nickel + clear passivation + seal (Spec. for VW "r643")	Clear	240	720	Υ	Υ	Q N/	A	S G	Q	Q	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	Q Q
Zinc/Nickel + clear passiva- tion + seal/torque modifier (Spec. for VW, DBL & BMW)	Clear	240	720	Υ	Υ	Q N/	A	S G	Q	Q	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	Q Q



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		Hou	rs to	Δvdelmate®	Avueilliate	Avex®	(aluminium body)	Avex®	(steel body)	@ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Avibuib	® X 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	AVIIIOX		Bullbexex	@``\	нешок	@`\	IIILETIOK	# ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	Namp-me	M C C C L ()	MOTIODOIL	1:014	Nall rivers		Q Rivel	Stayov®	O C C C C C C C C C C C C C C C C C C C	T-Lok®
Surface Finish Component Base Material	Colour	white rust	red rust	Stem	Body	Stem	Body (alu)	Stem	Body (steel)	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem Body
Steel																														
Zinc/Nickel + clear passivation + TnT 15	Clear	240	720	Υ	Υ	Q	N/A	Q	Q	Q	Q	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	Q Q
Zinc/Nickel + KTL	Black (bright)	360		Q	Q	N/A	N/A	N/A	Q	N/A	Q	N/A	N/A	N/A	N/A	N/A	Q	Q	Q	N/A	N/A	N/A	Q	Q	Q	Q	Q	N/A	Q	N/A Q
Zinc/Nickel no passivation	Grey	24	500	Υ	Υ	Q	N/A	Q	Q	Q	Q	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Y	Υ	Q	Q	Q Q
Zinc/Nickel (6µm) + trivalent black passivation + top seal	Black	72	240	Υ	Υ	Q	N/A	Q	Q	Q	Q	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	Q Q
Zinc/Nickel + trivalent black + top seal	Black	72	240	Υ	Υ	Q	N/A	Q	Q	Q	Q	N/A	N/A	N/A	N/A	Q	Q	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Υ	Υ	Q	Q	Q Q
Stainless Steel																														
Black Delta®-Seal	Black (matt)		480	Υ	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Q	N/A	N/A	N/A	N/A	Υ	Υ	N/A	N/A	N/A	Q	Υ	Υ	Υ	Υ	N/A	Υ	N/A N/A
Black oxide and oiling	Black			Υ	Υ	Q	N/A	N/A	N/A	N/A	N/A	Υ	Υ	N/A	N/A	N/A	N/A	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Y	Υ	Q	Q	N/A N/A
Clean + nitric acid passivation	Natural (shiny)			Υ	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Υ	N/A	N/A	N/A	N/A	Υ	Υ	N/A	N/A	Υ	Υ	Υ	Υ	Υ	Υ	N/A	Υ	N/A N/A
Epoxy painting	As required			Υ	Υ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Υ	N/A	N/A	N/A	N/A	Υ	Υ	N/A	N/A	N/A	Q	Υ	Υ	Υ	Υ	N/A	Υ	N/A N/A
Mechanical polishing	Natural (shiny)			Υ	Υ	Q	N/A	N/A	N/A	N/A	N/A	N/A	Υ	N/A	N/A	N/A	N/A	Υ	Υ	N/A	N/A	N/A	Υ	Υ	Υ	Y	Υ	N/A	Υ	N/A N/A
Temper colouring	Pale Straw	n/a	n/a	Υ	Υ	Q	N/A	N/A	N/A	N/A	N/A	Υ	Υ	N/A	N/A	N/A	N/A	Υ	Υ	N/A	N/A	Q	Q	Υ	Υ	Y	Υ	Q	Q	N/A N/A



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Breakstem Systems

Key to the symbols

Vaa thia finiah ia	taabaiaalli, araijaa aad baa	s baan annliad an thia tuna	of footonou/ou footonou com	annout lin the neet Nets	e however a minimum order quantity may apply.
Tes. This linish is	reconfically proven and has	s been abblied on this type.	or tastener (or tastener comu	onenn in the bast. Note	a nowever a minimum order quantity may apply.

The finish is technically possible but will require review by our Production Team to give you a price. Please submit an enquiry and we can start preparing a quote for you straight away.

Sorry, this finish is not suitable for this type of fastener (or fastener component). However we might have some alternative suggestions to meet your needs. Please contact us and let our Application Engineers help you to find a fastening solution.

		Hou	rs to	Δνdelmate®	איטפוווומנפ	Avex®		Avex® (steel body)		Avibulb®		Avinox®		Bulbexex®		Hemlok®	@- - - - -	Interiok	®~+:T ~ ~~ ~ ~ //	Namp-me	#T 0 1 0 0 0 V	Monobolt	-	Ivali rivets		ל אוא ל	C+2),(0,v®	ן ע	T-Lok®	
Surface Finish Component Base Material	Colour	white rust	red rust	Stem	Body		Body (alu)	Stem Body (steel)		Body	Stem	Body	Stom	Body	(to w	Stern	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body	Stem	Body
Brass																														
Black Delta®-Seal GZ	Black			N/A	N/A	N/A N	/A	N/A N/.	A N/	A N/A	N/A	N/A	N/	'A N/.	A N/	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Q	N/A	N/A	N/A	N/A	N/A N	N/A
Black oxide coating	Black			N/A	N/A	N/A N	/A	N/A N/.	A N/	A N/A	N/A	A N/A	λ N/	'A N/.	A N/	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Q	N/A	N/A	N/A	N/A	N/A N	N/A
Bright tin	Silver	n/a	n/a	N/A	N/A	N/A N	/A	N/A N/.	A N/	A N/A	N/A	A N/A	λ N/	'A N/.	A N/	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Q	N/A	N/A	N/A	N/A	N/A N	N/A
Brighten	Natural (shiny)			N/A	N/A	N/A N	/ A l	N/A N/	A N/	A N/A	N/A	A N/A	N/	′A N/	A N/	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Q	N/A	N/A	N/A	N/A	N/A N	
Molybdenum Disulphide Lube	Grey/Black			N/A	N/A	N/A N	/A	N/A N/.	A N/	A N/A	N/A	A N/A	N/	'A N/.	A N/	/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Q	N/A	N/A	N/A	N/A	N/A N	N/A

