

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-1	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	15 000 PCS	Size:	M12X30
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	G18-4315	Heat Number:	1208021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max				
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.36	0.16	0.49	0.016	0.021		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	800	924		(K)Height	Min	7.32	7.41
	Max					Max	7.68	7.62
8.6.Wedge Loading(N)	Min	67 400	75 050		(e)Across Corners	Min	21.1	21.32
	Max					Max		
8.5.Proof Load (N)	Min	48 900	48 900		(s)Across Flats	Min	18.67	18.75
	Max					Max	19.00	18.92
8.4.Hardness (HRC)	Min	23	27.6		Body Diameter	Min	11.73	11.79
	Max	32	30.5			Max	12.00	11.93



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-2	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	17 400 PCS	Size:	M12X35
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	G18-4315	Heat Number:	1208021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max				
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.36	0.16	0.49	0.016	0.021		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	800	910		(K)Height	Min	7.32	7.39
	Max					Max	7.68	7.58
8.6.Wedge Loading(N)	Min	67 400	75 050		(e)Across Corners	Min	21.1	21.32
	Max					Max		
8.5.Proof Load (N)	Min	48 900	48 900		(s)Across Flats	Min	18.67	18.75
	Max					Max	19.00	18.92
8.4.Hardness (HRC)	Min	23	27.6		Body Diameter	Min	11.73	11.79
	Max	32	30.5			Max	12.00	11.93



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-3	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	15 000 PCS	Size:	M12X40
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	G18-4315	Heat Number:	1208021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max				
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.36	0.16	0.49	0.016	0.021		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	800	900		(K)Height	Min	7.32	7.42
	Max					Max	7.68	7.60
8.6.Wedge Loading(N)	Min	67 400	75 050		(e)Across Corners	Min	21.1	21.32
	Max					Max		
8.5.Proof Load (N)	Min	48 900	48 900		(s)Across Flats	Min	18.67	18.75
	Max					Max	19.00	18.92
8.4.Hardness (HRC)	Min	23	27.6		Body Diameter	Min	11.73	11.79
	Max	32	30.5			Max	12.00	11.93



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-4	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	13 000 PCS	Size:	M12X40
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	G18-4315	Heat Number:	1208021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max				
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.36	0.16	0.49	0.016	0.021		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	800	910		(K)Height	Min	7.32	7.43
	Max					Max	7.68	7.61
8.6.Wedge Loading(N)	Min	67 400	75 050		(e)Across Corners	Min	21.1	21.32
	Max					Max		
8.5.Proof Load (N)	Min	48 900	48 900		(s)Across Flats	Min	18.67	18.75
	Max					Max	19.00	18.92
8.4.Hardness (HRC)	Min	23	27.6		Body Diameter	Min	11.73	11.79
	Max	32	30.5			Max	12.00	11.93



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-5	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	13 965 PCS	Size:	M16X35
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	8B02706	Heat Number:	1210021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.005	0.024		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	800	948		(K)Height	Min	9.82	9.90
	Max					Max	10.18	10.05
8.6.Wedge Loading(N)	Min	125000	132 000		(e)Across Corners	Min	26.75	27.25
	Max					Max		
8.5.Proof Load (N)	Min	91 100	91 100		(s)Across Flats	Min	23.67	27.80
	Max					Max	24.00	23.95
8.4.Hardness (HRC)	Min	23	27.0		(b) Thread	Min	SCREWS	SCREWS
	Max	32	29.5			Max		



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-6	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	31 350 PCS	Size:	M16X40
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	8B02706	Heat Number:	1210021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.005	0.024		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	800	928		(K)Height	Min	9.82	9.92
	Max					Max	10.18	10.07
8.6.Wedge Loading(N)	Min	125000	132 000		(e)Across Corners	Min	26.75	27.25
	Max					Max		
8.5.Proof Load (N)	Min	91 100	91 100		(s)Across Flats	Min	23.67	27.80
	Max					Max	24.00	23.95
8.4.Hardness (HRC)	Min	23	27.0		(b) Thread	Min	SCREWS	SCREWS
	Max	32	29.5			Max		



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-7	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	29 500 PCS	Size:	M16X50
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	8B02706	Heat Number:	1210021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.005	0.024		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	800	955		(K)Height	Min	9.82	9.95
	Max					Max	10.18	10.06
8.6.Wedge Loading(N)	Min	125000	132 000		(e)Across Corners	Min	26.75	27.25
	Max					Max		
8.5.Proof Load (N)	Min	91 100	91 100		(s)Across Flats	Min	23.67	27.80
	Max					Max	24.00	23.95
8.4.Hardness (HRC)	Min	23	27.0		(b) Thread	Min	SCREWS	SCREWS
	Max	32	29.5			Max		



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-8	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	12 100 PCS	Size:	M16X60
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	8B02706	Heat Number:	1210021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.007	0.019		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	800	936		(K)Height	Min	9.82	9.91
	Max					Max	10.18	10.08
8.6.Wedge Loading(N)	Min	125000	132 000		(e)Across Corners	Min	26.75	27.20
	Max					Max		
8.5.Proof Load (N)	Min	91 100	91 100		(s)Across Flats	Min	23.67	23.70
	Max					Max	24.00	23.77
8.4.Hardness (HRC)	Min	23	27.5		(b) Thread	Min	SCREWS	SCREWS
	Max	32	31.0			Max		



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-9	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	8 100 PCS	Size:	M20X50
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	242000327	Heat Number:	1210021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.005	0.024		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	830	965		(K)Height	Min	12.28	12.43
	Max					Max	12.72	12.62
8.6.Wedge Loading(N)	Min	203 000	231 000		(e)Across Corners	Min	33.53	33.94
	Max					Max		
8.5.Proof Load (N)	Min	147 000	147 000		(s)Across Flats	Min	29.67	29.76
	Max					Max	30.00	29.89
8.4.Hardness (HRC)	Min	23	27.5		(b) Thread	Min	SCREWS	SCREWS
	Max	34	31.0			Max		

Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-10	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	30 940 PCS	Size:	M20X60
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	242000327	Heat Number:	1210021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.005	0.024		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	830	983		(K)Height	Min	12.28	12.39
	Max					Max	12.72	12.64
8.6.Wedge Loading(N)	Min	203 000	231 000		(e)Across Corners	Min	33.53	33.94
	Max					Max		
8.5.Proof Load (N)	Min	147 000	147 000		(s)Across Flats	Min	29.67	29.76
	Max					Max	30.00	29.89
8.4.Hardness (HRC)	Min	23	27.5		(b) Thread	Min	SCREWS	SCREWS
	Max	34	31.0			Max		

Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-11	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	5 980 PCS	Size:	M20X70
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	242000327	Heat Number:	1210021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max				
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.005	0.024		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	830	974		(K)Height	Min	12.28	12.40
	Max					Max	12.72	12.66
8.6.Wedge Loading(N)	Min	203 000	231 000		(e)Across Corners	Min	33.53	33.94
	Max					Max		
8.5.Proof Load (N)	Min	147 000	147 000		(s)Across Flats	Min	29.67	29.76
	Max					Max	30.00	29.89
8.4.Hardness (HRC)	Min	23	27.0		(b) Thread	Min	SCREWS	SCREWS
	Max	34	31.0			Max		



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-12	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	6 000 PCS	Size:	M20X80
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	ESOX 8.8

Cast Number:	242000327	Heat Number:	1210021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max				
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.005	0.024		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	830	919		(K)Height	Min	12.28	12.40
	Max					Max	12.72	12.68
8.6.Wedge Loading(N)	Min	203 000	231 000		(e)Across Corners	Min	33.53	33.94
	Max					Max		
8.5.Proof Load (N)	Min	147 000	147 000		(s)Across Flats	Min	29.67	29.76
	Max					Max	30.00	29.89
8.4.Hardness (HRC)	Min	23	27.0		(b) Thread	Min	SCREWS	SCREWS
	Max	34	31.0			Max		



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-13	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	4000 PCS	Size:	M24X70
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	GIS 8.8

Cast Number:	242001218	Heat Number:	1215021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max				
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.005	0.024		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	830	988		(K)Height	Min	14.78	14.82
	Max					Max	15.00	14.95
8.6.Wedge Loading(N)	Min	293 000	298 000		(e)Across Corners	Min	39.98	41.02
	Max					Max		
8.5.Proof Load (N)	Min	212000	212000		(s)Across Flats	Min	35.38	35.42
	Max					Max	36.00	35.65
8.4.Hardness (HRC)	Min	23	27.0		(b) Thread	Min	SCREWS	SCREWS
	Max	34	31.0			Max		



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-14	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX BOLTS
Order Number:	JRGIS211016	Standard:	DIN933
Shipment Quantity	4000 PCS	Size:	M24X80
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	GIS 8.8

Cast Number:	242001218	Heat Number:	1215021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max				
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.005	0.024		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	830	988		(K)Height	Min	14.78	14.85
	Max					Max	15.00	14.95
8.6.Wedge Loading(N)	Min	293 000	298 000		(e)Across Corners	Min	39.98	41.02
	Max					Max		
8.5.Proof Load (N)	Min	212000	212000		(s)Across Flats	Min	35.38	35.50
	Max					Max	36.00	35.65
8.4.Hardness (HRC)	Min	23	27.0		(b) Thread	Min	SCREWS	SCREWS
	Max	34	31.0			Max		



Caliper	GO	OK	OK
Gauge	Not Go	OK	OK
Judgement:	OK		

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-15	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX NUTS
Order Number:	JRGIS211016	Standard:	DIN934
Shipment Quantity	49 300 PCS	Size:	M12
Shipment Date	JAN. 15TH, 2022	Grade:	8
Testing Standard	DIN267 PT4	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	S 8

Cast Number:	180905	Heat Number:	1205021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.007	0.019		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.1. Proof Load (N)	Min	67000	72000		(m)	Min	9.64	9.72
	Max				Thickness	Max	10.00	9.96
8.2.Hardness (HRC)	Min	30	32.00		(e)Across	Min	21.10	21.25
	Max	36	35.0		Corners	Max		
					(s)Across	Min	18.67	18.74
					Flats	Max	19.00	18.92
					Plug Gauge	GO	OK	OK
						Not Go	OK	OK
					Judgement:	OK		



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-16	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX NUTS
Order Number:	JRGIS211016	Standard:	DIN934
Shipment Quantity	46 970 PCS	Size:	M16
Shipment Date	JAN. 15TH, 2022	Grade:	8
Testing Standard	DIN267 PT4	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	S 8

Cast Number:	180905	Heat Number:	1205021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.007	0.019		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.1. Proof Load (N)	Min	94000	94200		(m)	Min	12.30	12.46
	Max				Thickness	Max	13.00	12.71
8.2.Hardness (HRC)	Min	30	32.5		(e)Across	Min	26.75	27.00
	Max	36	35.1		Corners	Max		
					(s)Across	Min	23.67	23.76
					Flats	Max	24.00	23.88
					Plug Gauge	GO	OK	OK
						Not Go	OK	OK
					Judgement:		OK	



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-17	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX NUTS
Order Number:	JRGIS211016	Standard:	DIN934
Shipment Quantity	24 840 PCS	Size:	M20
Shipment Date	JAN. 15TH, 2022	Grade:	8
Testing Standard	DIN267 PT4	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	S 8

Cast Number:	181236	Heat Number:	1205021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.007	0.019		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.1. Proof Load (N)	Min	147000	147300		(m)	Min	14.90	15.16
	Max				Thickness	Max	16.00	15.65
8.2.Hardness (HRC)	Min	30	32		(e)Across	Min	32.95	33.80
	Max	36	35.2		Corners	Max		
					(s)Across	Min	29.16	29.29
					Flats	Max	30.00	29.63
					Plug Gauge	GO	OK	OK
						Not Go	OK	OK
					Judgement:		OK	

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-18	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	HEX NUTS
Order Number:	JRGIS211016	Standard:	DIN934
Shipment Quantity	6 916 PCS	Size:	M24
Shipment Date	JAN. 15TH, 2022	Grade:	8
Testing Standard	DIN267 PT4	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	S 8

Cast Number:	181236	Heat Number:	1205021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.007	0.019		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.1. Proof Load (N)	Min	282000	300100		(m)	Min	17.70	17.98
	Max				Thickness	Max	19.00	18.54
8.2.Hardness (HRC)	Min	30	32		(e)Across	Min	39.55	40.60
	Max	36	35.2		Corners	Max		
					(s)Across	Min	35.00	35.42
					Flats	Max	36.00	35.85
					Plug Gauge	GO	OK	OK
						Not Go	OK	OK
					Judgement:		OK	

JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-19	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	THREADED RODS
Order Number:	JRGIS211016	Standard:	DIN975
Shipment Quantity	1 000 PCS	Size:	M16X2000
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	Yellow painting

Cast Number:	373411/G17-0105	Heat Number:	1205021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.007	0.019		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	800	980		Caliper	GO	OK	OK
	Max				Gauge	Not Go	OK	OK
8.6.Wedge Loading(N)	Min	125000	132 000		Length	Min	1999.50	2001.00
	Max				mm	Max	2010.50	
8.5.Proof Load (N)	Min	91 100	91 100		Judgement:			ok
	Max							
8.4.Hardness (HRC)	Min	23	25.0					
	Max	32	27.0					



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-20	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	THREADED RODS
Order Number:	JRGIS211016	Standard:	DIN975
Shipment Quantity	2 000PCS	Size:	M20X2000
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	Yellow painting

Cast Number:	373411/G17-0105	Heat Number:	1205021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.007	0.019		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	830	997		Caliper	GO	OK	OK
	Max				Gauge	Not Go	OK	OK
8.6.Wedge Loading(N)	Min	203 000	231 000		Length	Min	1999.50	2001.00
	Max				mm	Max	2010.50	
8.5.Proof Load (N)	Min	147 000	147 000		Judgement:			ok
	Max							
8.4.Hardness (HRC)	Min	23	25.0					
	Max	32	27.0					



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-21	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	THREADED RODS
Order Number:	JRGIS211016	Standard:	DIN975
Shipment Quantity	400PCS	Size:	M24X2000
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	Yellow painting

Cast Number:	373411/G17-0105	Heat Number:	1205021
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.32	0.40	0.20	0.30/0.60	0.035	0.03		
Result		0.35	0.15	0.60	0.007	0.019		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	830	1006		Caliper	GO	OK	OK
	Max				Gauge	Not Go	OK	OK
8.6.Wedge Loading(N)	Min	293 000	298 000		Length	Min	1999.50	2001.00
	Max				mm	Max	2010.50	
8.5.Proof Load (N)	Min	212000	212000		Judgement:			ok
	Max							
8.4.Hardness (HRC)	Min	23	25.0					
	Max	32	27.0					



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-22	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	THREADED RODS
Order Number:	JRGIS211016	Standard:	DIN975
Shipment Quantity	1 420 PCS	Size:	M12x1350
Shipment Date	JAN. 15TH, 2022	Grade:	4.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	

Cast Number:	19730246			030821
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CHEMICAL COMPOSITION

		C%	Si%	Mn%	S%	P%		
		Max	Max	Min/Max	Max	Max		
Standard		0.20	0.20	0.30/0.60	0.035	0.03		
Result		0.15	0.15	0.60	0.007	0.019		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	420	466		(b) Thread		GO	OK
	Max							
8.5.Proof Load (N)	Min	26 100	26 100		Length	Min	1348.00	1351.00
	Max				mm	Max	1352.00	
8.4.Hardness (HRB)	Min	71	75.0		Judgement:		ok	
	Max							



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-23	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	FLAT WASHER
Order Number:	JRGIS211016	Standard:	DIN125A
Shipment Quantity	10 500 PCS	Size:	M12
Shipment Date	JAN. 15TH, 2022	Grade:	
Testing Standard	DIN267 PT4	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	

Cast Number:	M7759469		
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CHEMICAL COMPOSITION

	C%	Si%	Mn%	S%	P%	Cr%	
	Max			Max	Max	Max	
Standard	0.62	0.17	0.90	0.035	0.035	0.25	
Result	0.63	0.19	0.95	0.02	0.019	0.16	

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.1. Proof Load (N)	Min	\	\		(D1) Inner	Min	13.00	13.05
	Max	\	\			Max	13.27	13.20
8.2.Hardness (HB)	Min	\	\		(D2) Outer	Min	23.48	23.56
	Max	185	155			Max	24.00	23.68
					(S)Thickness	Min	2.30	2.42
						Max	2.70	2.59
					Judgement:		OK	



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-24	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	FLAT WASHER
Order Number:	JRGIS211016	Standard:	DIN125A
Shipment Quantity	64 400 PCS	Size:	M16
Shipment Date	JAN. 15TH, 2022	Grade:	
Testing Standard	DIN267 PT4	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	

Cast Number:	M7759469		
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CHEMICAL COMPOSITION

	C%	Si%	Mn%	S%	P%	Cr%	
	Max			Max	Max	Max	
Standard	0.62	0.17	0.90	0.035	0.035	0.25	
Result	0.63	0.19	0.95	0.02	0.019	0.16	

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.1. Proof Load (N)	Min	\	\		(D1) Inner	Min	17.00	17.15
	Max	\	\			Max	17.27	17.21
8.2.Hardness (HB)	Min	\	\		(D2) Outer	Min	29.48	29.59
	Max	185	156			Max	30.00	29.87
					(S)Thickness	Min	2.70	2.76
						Max	3.30	2.90
					Judgement:		OK	



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-25	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	FLAT WASHER
Order Number:	JRGIS211016	Standard:	DIN125A
Shipment Quantity	83 700 PCS	Size:	M20
Shipment Date	JAN. 15TH, 2022	Grade:	
Testing Standard	DIN267 PT4	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	

Cast Number:	M7759469		
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CHEMICAL COMPOSITION

	C%	Si%	Mn%	S%	P%	Cr%	
	Max			Max	Max	Max	
Standard	0.62	0.17	0.90	0.035	0.035	0.25	
Result	0.63	0.19	0.95	0.02	0.019	0.16	

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.1. Proof Load (N)	Min	\	\		(D1) Inner	Min	21.00	21.09
	Max	\	\			Max	21.33	21.26
8.2.Hardness (HB)	Min	\	\		(D2) Outer	Min	36.38	36.75
	Max	185	150			Max	37.00	36.89
					(S)Thickness	Min	2.70	2.96
						Max	3.30	3.20
					Judgement:		OK	



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-26	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	FLAT WASHER
Order Number:	JRGIS211016	Standard:	DIN125A
Shipment Quantity	20 000 PCS	Size:	M24
Shipment Date	JAN. 15TH, 2022	Grade:	
Testing Standard	DIN267 PT4	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	

Cast Number:	M7759469		
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CHEMICAL COMPOSITION

	C%	Si%	Mn%	S%	P%	Cr%	
	Max			Max	Max	Max	
Standard	0.62	0.17	0.90	0.035	0.035	0.25	
Result	0.63	0.19	0.95	0.02	0.019	0.16	

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.1. Proof Load (N)	Min	\	\		(D1) Inner	Min	25.00	25.20
	Max	\	\			Max	25.33	25.30
8.2.Hardness (HB)	Min	\	\		(D2) Outer	Min	43.38	43.69
	Max	185	164			Max	44.00	43.98
					(S)Thickness	Min	3.70	3.74
						Max	4.30	3.88
					Judgement:		OK	



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-27	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	ANCHOR BOLT
Order Number:	JRGIS211016	Standard:	
Shipment Quantity	1 920 PCS	Size:	10X70
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	

Cast Number:	2-715123			
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.06	0.12	0.30	0.25/0.50	0.3	0.045		
Result	0.07	0.11	0.17	0.33	0.16	0.03		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	420	480		Shank	Min	8.81	8.85
	Max				Body(D)	Max	8.97	8.92
8.4.Hardness (HRB)	Min	71	80.0		Body End(A)	Min	9.90	9.95
	Max					Max	10.05	10.01
					length	Min	69.40	70.05
						Max	70.60	70.18
					Judgement:		OK	



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-28	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	ANCHOR BOLT
Order Number:	JRGIS211016	Standard:	
Shipment Quantity	5 040 PCS	Size:	12X100
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	

Cast Number:	2-715123			
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.06	0.12	0.30	0.25/0.50	0.3	0.045		
Result	0.07	0.11	0.17	0.33	0.16	0.03		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	420	475		Shank	Min	8.81	8.85
	Max				Body(D)	Max	8.97	8.92
8.4.Hardness (HRB)	Min	71	80.0		Body End(A)	Min	9.90	9.95
	Max					Max	10.05	10.01
					length	Min	99.30	99.60
						Max	100.70	100.18
Judgement:							OK	



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-29	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	ANCHOR BOLT
Order Number:	JRGIS211016	Standard:	
Shipment Quantity	1 960 PCS	Size:	12X80
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	

Cast Number: 2-715712

CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.06	0.12	0.30	0.25/0.50	0.3	0.045		
Result	0.07	0.11	0.17	0.33	0.16	0.03		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	420	488		Shank	Min	10.61	10.65
	Max				Body(D)	Max	10.79	10.72
8.4.Hardness (HRB)	Min	71	80.0		Body End(A)	Min	11.88	11.90
	Max					Max	12.05	12.02
					length	Min	79.40	79.69
						Max	80.60	80.26
					Judgement:		OK	



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-30	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	ANCHOR BOLT
Order Number:	JRGIS211016	Standard:	
Shipment Quantity	2 970 PCS	Size:	16X180
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	

Cast Number:	2-715829			
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.06	0.12	0.30	0.25/0.50	0.3	0.045		
Result	0.07	0.11	0.17	0.33	0.16	0.03		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	420	475		Shank	Min	14.44	14.50
	Max				Body(D)	Max	14.63	14.61
8.4.Hardness (HRB)	Min	71	80.0		Body End(A)	Min	15.85	15.92
	Max					Max	16.05	16.02
					length	Min	179.20	179.42
						Max	180.80	180.36
					Judgement:		OK	



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-31	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	ANCHOR BOLT
Order Number:	JRGIS211016	Standard:	
Shipment Quantity	2 970 PCS	Size:	20X180
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	ZINC PLATED
Coating thickness	3-5um	Coating standard	DIN ISO ISO 4032
Testing Quantity	10 PCS	Head Marked:	

Cast Number:	2-715561			
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.06	0.12	0.30	0.25/0.50	0.3	0.045		
Result	0.07	0.11	0.17	0.33	0.16	0.03		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	420	489		Shank	Min	18.05	18.07
	Max				Body(D)	Max	18.31	18.26
8.4.Hardness (HRB)	Min	71	80.0		Body End(A)	Min	19.80	19.85
	Max					Max	20.05	19.95
					length	Min	179.20	179.42
						Max	180.80	180.38
					Judgement:		OK	



JIAXING RISEN HARDWARE CO.,LTD

CERTIFICATE OF QUALITY ACCORDING TO PN-EN 10204:2006

Certificate Number:	RS021130-32	Date:	DEC. 28, 2021
Customer:	Giallourous industrial Supplies ltd	Description:	SHEAR STUDS
Order Number:	JRGIS211016	Standard:	ISO13918
Shipment Quantity	16 200 PCS	Size:	19x100
Shipment Date	JAN. 15TH, 2022	Grade:	8.8
Testing Standard	ISO 898-1	Finish:	PLAIN
Testing Quantity	10 PCS	Head Marked:	FT

Cast Number:	82730246			
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CHEMICAL COMPOSITION

	C%		Si%	Mn%	S%	P%		
	Min	Max	Max	Min/Max	Max	Max		
Standard	0.15	0.20	0.20	0.30/0.60	0.035	0.03		
Result		0.18	0.15	0.60	0.005	0.024		

MECHANICAL PROPERTIES

DIMENSIONS

		Standard	Result				Standard	Result
8.2. Tensile(N)	Min	420	475		(K)Height	Min	9.50	9.63
	Max					Max	11.00	9.99
8.4.Hardness (HRB)	Min	71	80.0		Round head	Min	31.70	31.76
	Max					Max	32.30	32.05
					length	Min	98.50	100.03
						Max	101.50	100.38
Judgement:							OK	

