



BDS EN ISO 9001:2008

QUALITY CERTIFICATE

acc to EN10204 - 3.1

Page 1 of 2

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Email: info@fitco.com.gr - http://www.fitco.gr

CO's Order No: 1200084548 / Customer's Order No: 0307172/N-P003998

DATE: 11/10/2017

Announcement No: 1000090070

E82-3_5
September 2013

Version B / Revision 2

duct(s):
BRASS ROUND RODS
BRASS SQUARE RODS
BRASS HEXAGONAL RODS

Material: CuZn40Mn1Pb1FeSn
CuZn36Sn1Pb
CW721R
CW712R

Standard: EN 12164
EN 12163

M	BATCH	WEIGHT (Kg)	Nominal Dimension (mm)	Shape	Alloy	TEMPER	Mechanical Properties				
							TENSILE STRENGTH Rm (N/mm ²)	Rp (0.2%) Proof Strength (N/mm ²)	A (%)	HB	GRAIN SIZE
1	13091050	512	44,450 X 3000	HEX	CW721R	M	524	275	34.5	138	
2	14092146	509	38,100 X 3000	HEX	CW712R	M	392	215	28.4	117	
3	13091040	499	31,750 X 3000	HEX	CW721R	M	516	284	29.4	140	
4	13091045	531	36,000 X 3000	HEX	CW721R	M	522	277	32.3	137	
5	14092146	523	25,400 X 3000	HEX	CW712R	M	394	207	29.4	117	
6	15090236	534	25,650 X 3000	HEX	CW712R	M	391	198	26.6	104	
7	13091005	1553	27,000 X 3000	HEX	CW721R	M	551	313	28.3	140	
8	15090236	522	41,275 X 3000	HEX	CW712R	M	408	236	26.7	122	
9	13090520	759	30,000 X 3000	HEX	CW721R	M	509	280	31.7	139	
10	13090220	499	60,330 X 3000	ROUND	CW721R	M	512	278	35.9	131	
11	13090740	999	25,400 X 3000	ROUND	CW721R	M	588	403	22.8	172	
12	13090215	511	30,000 X 3000	ROUND	CW721R	M	551	363	25.6	138	
13	15090111	1004	22,230 X 3000	ROUND	CW712R	M	442	348	20.6	127	
14	15090111	502	31,750 X 3000	ROUND	CW712R	M	435	306	22.2	127	
15	15090111	520	30,000 X 3000	ROUND	CW712R	M	418	309	20.8	125	
16	08110113	487	69,850 X 3000	ROUND	CW712R	M	369	223	28.4	117	
17	15090236	508	60,325 X 3000	ROUND	CW712R	M	369	208	25.0	115	
18	10972	10972									

Chemical Composition (%)												REMARKS
Cu	Al	As	Fe	Ni	Pb	Sn	Si	Mn	Zn			
58.59	0.660	0.038	0.26	0.06	0.99	0.25	0.03	1.22	37.89		STRESS RELIEVED	
62.18	0.000	0.002	0.03	0.06	0.32	1.10	0.00	0.02	36.26		STRESS RELIEVED	
58.59	0.660	0.038	0.26	0.06	0.99	0.25	0.03	1.22	37.89		STRESS RELIEVED	
58.59	0.660	0.038	0.26	0.06	0.99	0.25	0.03	1.22	37.89		STRESS RELIEVED	
62.18	0.000	0.002	0.03	0.06	0.32	1.10	0.00	0.02	36.26		STRESS RELIEVED	
62.07	0.000	0.002	0.04	0.07	0.43	1.14	0.00	0.02	36.20		STRESS RELIEVED	
58.75	0.559	0.018	0.26	0.06	0.87	1.27	0.02	1.15	38.04		STRESS RELIEVED	
62.07	0.000	0.002	0.04	0.07	0.43	1.14	0.00	0.02	36.20		STRESS RELIEVED	
62.07	0.000	0.002	0.04	0.07	0.43	1.14	0.00	0.02	36.20		STRESS RELIEVED	
58.67	0.631	0.023	0.27	0.06	0.93	0.27	0.03	1.25	37.83		STRESS RELIEVED	
58.58	0.612	0.022	0.26	0.07	0.95	0.28	0.03	1.22	37.94		STRESS RELIEVED	
58.65	0.603	0.022	0.26	0.07	0.98	0.30	0.03	1.14	37.95		STRESS RELIEVED	
58.65	0.572	0.022	0.26	0.07	0.98	0.30	0.03	1.14	37.95		STRESS RELIEVED	
62.00	0.000	0.029	0.03	0.01	0.40	1.14	0.00	0.00	36.36		STRESS RELIEVED	
62.00	0.000	0.029	0.03	0.01	0.40	1.14	0.00	0.00	36.36		STRESS RELIEVED	
62.00	0.000	0.029	0.03	0.01	0.40	1.14	0.00	0.00	36.36		STRESS RELIEVED	
62.00	0.000	0.029	0.03	0.01	0.40	1.14	0.00	0.00	36.36		STRESS RELIEVED	
62.19	0.000	0.004	0.02	0.02	0.25	1.03	0.00	0.00	36.46		STRESS RELIEVED	
62.07	0.000	0.002	0.04	0.07	0.43	1.14	0.00	0.02	36.20		STRESS RELIEVED	



COFFICER: Antonis Toufouzis

QA MANAGER: Sylvia Zornalia

Declaration of Conformity: products detailed above, conform to the conditions and requirements of the purchaser and to the description, quantities and specifications stated. The Q.A. production complies to the requirements of ISO 9001:2008, independently certified by TÜV HELLAS Quality Assurance, with certification No. 041100157

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

F13522 - 1 1/2" MM
NIT 1500 CRYO
Union Connection



BDS EN ISO 9001:2008

QUALITY CERTIFICATE

acc to EN10204 - 3.1

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September 2013

Version 8 / Revision 2

CO's Order No: 1200084548 / Customer's Order No: 030717Z/N-PC03998

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 E-mail: info@fitco.vionet.gr - http://www.fitco.gr
 DATE: 11/10/2017

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 BRASS SQUARE RODS
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Material: CuZn40Mn1Pb1Fesn
 CuZn36Sn1Pb
 CW721R
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Standard: EN 12164
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M	BATCH	WEIGHT * (Kg)	Nominal Dimension (mm)	Shape	Alloy	TEMPER	Mechanical Properties				
							TENSILE STRENGTH Rm (N/mm ²)	Rp (0.2%) Proof Strength (N/mm ²)	A (%)	HB	GRAM SIZE
1	15090236	510	40,000 X 3000	ROUND	CW712R	M	435	336	21.8	121	
2	15090111	510	20,000 X 3000	ROUND	CW712R	M	426	313	21.3	122	
3	04050155	499	17,000 X 3000	HEX	CW712R	M	450	304	24.0	127	
4	13090525	496	24,000 X 3000	HEX	CW721R	M	584	305	29.0	146	
5	13091000	474	20,830 X 3000	HEX	CW721R	M	558	316	25.7	142	
6	04050155	1026	19,050 X 3000	HEX	CW712R	M	429	281	27.9	121	
7	13090520	480	40,000 X 3000	SQUARE	CW721R	M	494	242	35.9	135	
8	14092146	488	40,000 X 3000	SQUARE	CW712R	M	387	198	27.8	117	
9	15090236	719	50,800 X 3000	SQUARE	CW712R	M	388	191	30.7	119	
10	14092146	541	95,250 X 3000	ROUND	CW712R	M	353	162	30.1	89	
11	14092146	953	88,900 X 3000	ROUND	CW712R	M	359	165	29.5	86	
12	14092146	527	27,000 X 3000	HEX	CW712R	M	419	255	23.9	115	
13	15090236	408	31,750 X 3000	SQUARE	CW712R	M	386	213	26.9	117	
14	13090215	460	30,000 X 3070	SQUARE	CW721R	M	503	272	35.9	138	
15	15090236	540	32,000 X 3000	HEX	CW712R	M	387	218	26.1	111	
16	04050155	512	13,000 X 3000	HEX	CW712R	M	446	319	23.3	116	
17	08110113	775	80,000 X 3000	ROUND	CW712R	M	346	160	35.2	88	

Cu	Al	As	Fe	Ni	Pb	Sn	Si	Mn	Zn	REMARKS
62.07	0.000	0.002	0.04	0.07	0.43	1.14	0.00	0.02	36.20	
62.00	0.000	0.029	0.03	0.01	0.40	1.14	0.00	0.00	36.36	
61.96	0.001	0.003	0.06	0.05	0.36	1.23	0.00	0.04	36.28	
58.67	0.631	0.023	0.27	0.06	0.93	0.27	0.03	1.25	37.83	STRESS RELIEVED
58.75	0.559	0.018	0.26	0.06	0.87	0.27	0.02	1.15	38.04	STRESS RELIEVED
61.96	0.001	0.003	0.06	0.05	0.36	1.23	0.00	0.04	36.28	
62.18	0.631	0.023	0.27	0.06	0.93	0.27	0.03	1.25	37.83	STRESS RELIEVED
62.07	0.000	0.002	0.03	0.06	0.32	1.10	0.00	0.02	36.26	
62.18	0.000	0.002	0.03	0.06	0.32	1.10	0.00	0.02	36.26	
62.07	0.000	0.002	0.03	0.06	0.32	1.10	0.00	0.02	36.26	EXTRUDED
62.18	0.000	0.002	0.03	0.06	0.32	1.10	0.00	0.02	36.26	EXTRUDED
62.07	0.000	0.002	0.03	0.06	0.32	1.10	0.00	0.02	36.26	STRESS RELIEVED
62.18	0.000	0.002	0.03	0.06	0.32	1.10	0.00	0.02	36.26	STRESS RELIEVED
58.59	0.660	0.028	0.26	0.06	0.99	0.25	0.03	1.22	37.89	STRESS RELIEVED
62.07	0.000	0.002	0.04	0.07	0.43	1.14	0.00	0.02	36.20	
61.96	0.001	0.003	0.06	0.05	0.36	1.23	0.00	0.04	36.20	STRESS RELIEVED
62.19	0.000	0.004	0.02	0.02	0.25	1.03	0.00	0.00	36.46	EXTRUDED



OFFICER: Antonis Toulfartzis

QA MANAGER: Sylvia Zornalia

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 VERIFIED TRUE
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