



M E L A T U R G I C H E S S A

BOS EN ISO 5007:2008

QUALITY CERTIFICATE

acc to EN10204 - 3.1

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E82-3_5
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Version B / Revision 2

FITCO's Order No: 1200080621 / Customer's Order No: 0903172/N-P001459

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59rd Km. National road Athens-Lamia, ZIP code 32011 Oinoi/ya Votias. Tel +30 22 620 53175 Fax +30 22 620 53147

E-mail : info@fitco.gr - http://www.fitco.gr

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

Material: CUZn40Mn1PbFeSn
CUZn39Pb3
CUZn36Sn1Pb

Standard: EN 12164
EN 12163

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

Material: CUZn40Mn1PbFeSn
CUZn39Pb3
CUZn36Sn1Pb

Standard: EN 12164
EN 12163

ITEM No	BATCH No	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	20032220	2008	12,700 X 3000	ROUND	CW614N	M	431	238	28,8	117	
2	21030930	1002	25,000 X 3000	ROUND	CW614N	M	439	236	22,4	120	
3	21030215	2004	15,880 X 3000	ROUND	CW614N	M	435	257	25,3	122	
4	22030520	1509	32,000 X 3000	ROUND	CW614N	M	440	246	17,7	123	
5	20031640	2016	14,290 X 3000	ROUND	CW614N	M	462	255	27,5	132	
6	21030930	1020	60,325 X 3000	ROUND	CW614N	M	407	239	29,3	110	
7	20032340	1575	25,400 X 3000	HEX	CW614N	M	463	254	25,6	125	
8	21030005	1030	19,050 X 3000	HEX	CW614N	M	451	256	21,8	123	
9	21030615	1026	22,230 X 3000	ROUND	CW614N	M	466	248	17,0	138	
10	20032040	1008	19,000 X 3000	ROUND	CW614N	M	468	267	16,8	137	
11	13041440	1009	25,400 X 3000	ROUND	CW721R	M	659	291	27,0	178	
12	08110113	504	14,290 X 3000	ROUND	CW712R	M	416	207	33,1	135	
13	07112011	510	34,930 X 3000	ROUND	CW712R	M	415	225	36,2	132	
14	13041310	1934	50,000 X 3000	SQUARE	CW721R	M	493	239	47,0	120	
15	21030315	1012	17,000 X 3000	HEX	CW614N	M	431	255	26,8	118	
16	13041550	2047	57,150 X 3000	ROUND	CW721R	M	547	285	41,7	149	
Total weight, Kg:		21214									

Chemical Composition (%)												REMARKS
Cu	Al	As	Fe	Ni	Pb	Sn	Si	Mn	Zn			
58,34	0,013	0,006	0,20	0,10	3,21	0,18	0,00	0,01	37,93			
58,36	0,010	0,006	0,20	0,10	3,19	0,18	0,00	0,00	37,93			
58,29	0,018	0,006	0,20	0,11	3,17	0,21	0,01	0,01	37,95			
58,31	0,014	0,007	0,21	0,11	3,20	0,21	0,01	0,01	37,90			
58,39	0,011	0,007	0,22	0,12	3,15	0,22	0,01	0,01	37,83			
58,10	0,017	0,007	0,21	0,12	3,16	0,23	0,01	0,01	38,12			
58,29	0,021	0,007	0,21	0,13	3,08	0,24	0,01	0,01	37,98			STRESS RELIEVED
58,12	0,020	0,006	0,21	0,15	3,13	0,23	0,01	0,01	38,09			STRESS RELIEVED
58,31	0,027	0,006	0,22	0,16	3,13	0,25	0,01	0,01	37,86			
58,36	0,024	0,006	0,21	0,16	3,12	0,23	0,01	0,01	37,85			
58,22	0,474	0,031	0,27	0,07	1,05	0,24	0,01	1,22	38,386			
62,19	0,000	0,004	0,02	0,02	0,25	1,03	0,00	0,00	36,461			
62,30	0,000	0,002	0,02	0,00	0,26	1,13	0,00	0,00	36,265			STRESS RELIEVED
57,65	0,439	0,026	0,27	0,08	1,11	0,23	0,01	1,36	38,801			STRESS RELIEVED
58,22	0,033	0,006	0,21	0,16	3,19	0,24	0,01	0,01	37,895			STRESS RELIEVED
58,41	0,585	0,018	0,24	0,05	0,84	0,47	0,01	1,14	38,211			



NOTES:

QC OFFICER : Antonis Toulfatzis

QA MANAGER : Sylvia Zornalia

Declaration of Conformity

The 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 HELIAS Quality Assurance, with certification No: 041100157

FLOW TECHNOLOGY LTD

TEST CERTIFICATE

VERIFIED TRUE

COPY OF ORIGINAL

F13521
NC151 1 1/2" NPT
Male Spigot