wire was not made as an experiment, but was drawn certain wire company as a part of a regular business cont

The point must be kept clearly in mind, however, even the best of wire is of little value if improperly used, the consumer must realize that the same degree of care w he insists upon from the manufacturer, is essential in handling and stringing of the finished wire.

The study of copper wire and the demands made up show the great need of a more thorough knowledge of material. Owing to the minute quantity of impurities w exert a marked effect upon the qualities of copper, a chen analysis is too difficult for technical purposes. The and steel industry is largely controlled to-day by m chemistry, and, in the same way, there is a future for same practice in the copper industry. Of first importanc the careful working out of the copper-cuprous oxide system the determination of the number of phases occurring and physical properties incident to different alloys. Doub much of this information is already in the hands of the per refiners, but it remains for chemical engineers chemists interested in industrial materials to verify and plete the work for the consumer.

> Table No. 1. Torsion

Turns in

10"

14

Tensile

Load

Lbs.

5,650

Diameter 🖕

Inches.

0.365

						1
rawn by a	X	0.364	27	5,400	08.3	-
s contract.			30			
vever, that	The Brach		28	C. Contract		
used, and			and the state of			
care which	treast, set a s	and an instances	Av. 28			
tial in the	Y	0.364	25	5,490	98.4	
			27			
de upon it	and the second		50			
ities which			Av 26			
a chemical	7	0.261	25	E 500	08 2	
The iron		0.304	28	3,390	90.2	
by micro-			25			
re for this						
ortance, is			Av. 26			
ystem with	i shedelet		Table No. 2	· mate in		
ng and the	-Distant Soli	Diameter	Torsion	Tensile	Conduc-	
Doubtless	Number.	Inches.	Turns in	Load	tivity	
peers and	12000		10″	Lbs.	%	
and com-	I	0.363	221/2	\$,470	99	
			2434			
			221/2			
Carden	in the second		Av 221/	1		
tivity	2	0.364	22	5 400	08 7	
o/		0.304	25	5,490	90.7	
% 08.4			23			
90.4						
			Av. 231/2			
	3	0.363	1934	5,400	97.8	
			251/2			
			171/2		in the second	
90.0		4				
		0.262	AV. 21 1/2	5 150	000	
	4	0.303	2372 251/2	5,470	90.0	
			231/2			
- 9 -						
90.2			Av. 24			
and the set	5	0.363	221/2	5,450	97.8	
			213/4			
			24	and the space		
-9.6	6		Av. 223/4	ALC: MEAN-		
90.0	U	0.303	24	5,500	98.0	1
			20			
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			24			
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			Av. 23½		Part an and	
	8	0.305	23	5,510	98.5	
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B. Starting	0	0.363	24	5,540	08	
Read Sev	The A	and the De al	191/2			
			231/2			
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98.9	IO	0.363	21	5,470	98.8	
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Hor Salisar		0 262	AV. 21%	F 100	280	
a te la la la la		0.303	22 1/2	5,490	90.0	
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5 N. 20	12	0.363	261/2	5,500	98.5	
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	13	0.363	23	5,450	98.7	
and a second			201/2			
e let a set			AV 2216			
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		Av. 11			
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D	0.365	18	5,260	98.6	
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E	0.365	14	5,270	98.7	
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and the state		25	3,110	90.4	
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1	0.305	24	5,210	08.4	

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Av. 24

Number.

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