



## **Industrial Rubber Inc.**

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### ***Industrial Rubber, Inc. Rubber Cementing Plugs***



**Top Rubber Plug**

**Industrial Rubber offers three types of Rubber Plugs, the Top Rubber Plug, Bottom Rubber Plug and the Omega (Ball-Type) Plug.**

Industrial Rubber Cementing Plugs are engineered for reliability. The Top Rubber plug and Bottom Rubber Plug are of the same basic design with firm wiping action provided by five wiping surfaces.

The Cup design on top and bottom of both plugs provides a sure seal against the casing wall to prevent mixing of cement slurry and displacement fluid. The Top Plug seats and seals into the Bottom Plug to lessen the possibility of additional cement slurry displacement and assure good bonding at the bottom of the casing.

The Top Rubber plug has a core of epoxy coated sand compressed into a solid mass allowing the plug to withstand shock when pumped to touchdown and allows unbelievable drill ability. The core is completely encased in rubber and has a solid base to prevent separation.

Bottom Rubber Plug has a core of cast aluminum (PDC DRILLABLE). After the plug has completed its cleaning of the casing ahead of the cement slurry and seated at touch down, additional pressure ruptures the rubber diaphragm at the top of the core allowing slurry to continue to its' destination.

Additional Strength is engineered into Industrial Rubber's Top Rubber Plug. Note solid base eliminating the possibility of plug collapse caused by a core being pumped out.

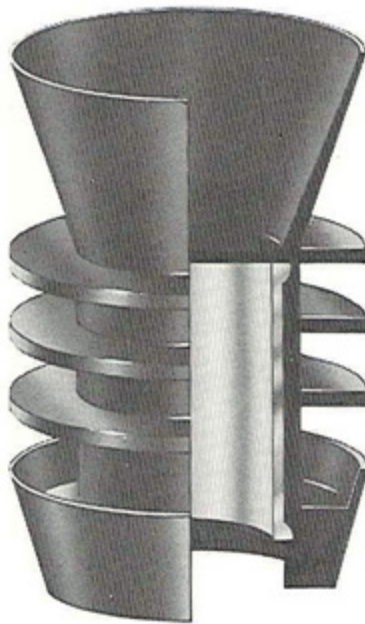
<b>TOP RUBBER PLUGS Specifications</b>			
<u>Casing Size</u>	<u>Casing Weight</u>	<u>Plugs O.D.</u>	<u>Plug Length</u>
3 1/2"	7/11 lbs.	3 1/8"	6 1/2"
4 1/2"	9.5/13.5 lbs.	4 3/16"	7 1/2"
5 1/2"	13/23 lbs.	5 5/16"	8 5/8"
6 5/8"	17/32 lbs.	6 1/8"	9 1/4"
7"	17/38 lbs.	6 5/8"	9 1/2"
7 5/8"	20/39 lbs.	7 3/16"	10"
8 5/8"	24/49 lbs.	8 1/8"	10 1/2"
9 5/8"	29.3/53.5 lbs.	9 1/16"	11"
10 3/4"	32.75/55.5 lbs.	10 1/4"	12"
11 3/4"	38/61 lbs.	11 1/4"	11 3/4"
12 3/4"	53 lbs.	12 1/4"	13 1/4"
13 3/8"	48/83.5 lbs.	13"	15 1/4"



### **Omega Rubber Plug**

OMEGA CEMENTING PLUGS are designed using solid rubber with the top portion larger than an ordinary top plug. As the plug travels down the casing it elongates and applies more pressure against the casing wall assuring a better wiping effect and greater separation of cement slurry and displacement fluid. Available only in tubing sizes.

<b>Tubing Plugs -Specs</b>			<b>Omega Plugs-Specs</b>		
<u>Tubing Size</u>	<u>Plug O.D.</u>	<u>Plug Length</u>	<u>O.D. of Ball</u>	<u>O.D. of Body</u>	<u>Length</u>
2 3/8"	2 1/8"	4 5/8"	2 1/16"	2 3/8"	6"
2 7/8"	2 9/16"	4 1/4"	3 1/8"	2 9/16"	6 1/2"



**Bottom Rubber Plug**

Rubber Cementing Plugs					
<i>Top Rubber Plugs</i>		<i>Bottom Rubber Plugs</i>			
		BLACK		RED	
<u>Size</u>	<u>Part Number</u>	<u>Size</u>	<u>Part Number</u>	<u>Size</u>	<u>Part Number</u>
3 1/2"	100-0034	3 1/2"	N/A	3 1/2"	N/A
4 1/2"	100-0044	4 1/2"	110-0044	4 1/2"	110--0044R
5 1/2"	100-0054	5 1/2"	110-0054	5 1/2"	110-0054R
6 5/8"	100-0065	6 5/8"	110-0065	6 5/8"	110-0065R
7"	100-0070	7"	110-0070	7"	110-0070R
7 5/8"	100-0075	7 5/8"	110-0075	7 5/8"	110-0075R
8 5/8"	100-0085	8 5/8"	110-0085	8 5/8"	110-0085R
9 5/8"	100-0095	9 5/8"	110-0095	9 5/8"	110-0095R
10 3/4"	100-0106	10 3/4"	110-0106	10 3/4"	110-0106R
11 3/4"	100-0116	11 3/4"	110-0116	11 3/4"	110-0116R
12 3/4"	100-0126	12 3/4"	110-0126	12 3/4"	110-0126R
13 3/8"	100-0133	13 3/8"	110-0133	13 3/8"	110-0133R
<p>Top Rubber Plugs have a special non-metallic core destined for easy drill-out. It is completely encased in rubber to prevent separation during pump-out.</p>					
<p>Bottom Rubber Plugs are designed with a special aluminum alloy cylinder and is PDC Drillable. The use of plastic or other polymers for this purpose can result in plug failure. Another reason for using Aluminum, some bottom hole temperatures exceed the limits of Plastic polymers.</p>					