

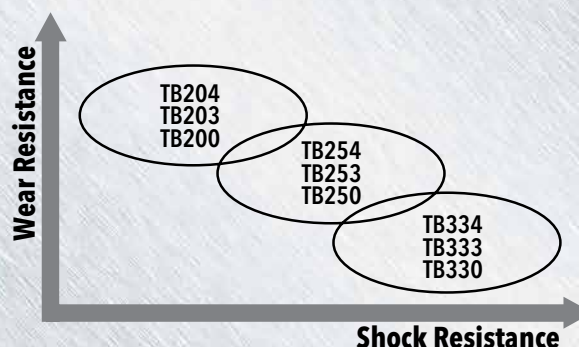
# PRODUCT NEWS

## BRAZED HEAD GRADE CONSOLIDATION

**Effective November 30th, 2012**

Ingersoll has offered many grade variations and coating options in the BTA brazed head product in the past. In an effort to simplify the process of choosing the appropriate grade for your application, Ingersoll is announcing the following consolidated grade offering in the brazed drill heads.

NEW UNCOATED	TiAIN COATED	ZAP COATED
TB200	TB203	TB204
TB250	TB253	TB254
TB270	TB273	TB274
TB330	TB333	TB334



**TB254**, which has a good balance of wear resistance and shock resistance, is the first recommendation for carbon steels, alloy steels and stainless steels.

**TB334** is the first recommendation where primary concern is shock resistance.

**TB204** is the first recommendation where the primary concern is wear resistance.

**TB274** is the first recommendation for heat resistant alloys, titanium alloys and cast iron.

### CONVERSION CHART TO NEW GRADES:

TB220	→	<b>TB200</b>
TB900	→	

TB223	→	<b>TB203</b>
TB903	→	

TB224	→	<b>TB204</b>
TB904	→	

TB260	→	<b>TB250</b>
TB350	→	

TB263	→	<b>TB253</b>
TB353	→	

TB264	→	<b>TB254</b>
TB354	→	

TB450	→	<b>TB330</b>
TB460	→	
TB470		

TB453	→	<b>TB333</b>
TB463	→	
TB473		

TB454	→	<b>TB334</b>
TB464	→	
TB474		

TB290	→	<b>TB270</b>
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TB293	→	<b>TB273</b>
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TB294	→	<b>TB274</b>
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# PRODUCT NEWS

## CARBIDE GRADES:

ISO	WEAR RESISTANCE						TOUGHNESS			
	5	10	15	20	25	30	35	40	45	50
P	TB20X									
			TB25X							
M				TB25X						
			TB33X							
K		TB27X								
N		TB27X								
S		TB27X								

**COATING OPTIONS:** Replace "X" in chart above with coating code.

CODE	DESCRIPTION	FEATURE
4	4 Element Coating	First recommendation, high resistance against heat and adhesion
3	TiAlN+ Surface Treatment	Improved resistance against adhesion
0	Uncoated	Standard resistance against heat

## PLEASE NOTE:

**From now until November 30th,** repeat orders for older grades will be processed based on availability of raw material. New orders will not be accepted.

**After November 30th,** orders for old grades will be automatically changed to the alternative grade.