

# boehlerit

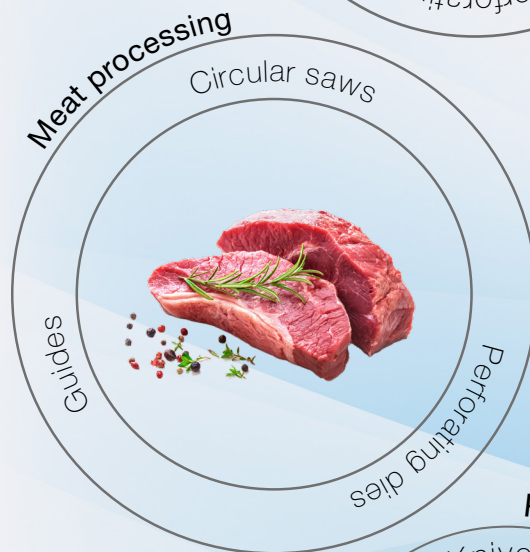
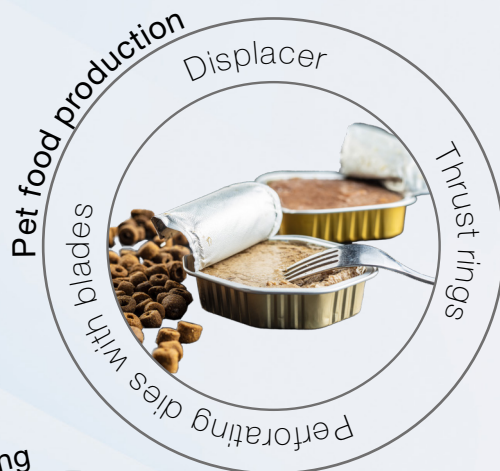
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Food industry



With our food related special grades, we provide solutions that combine cost efficiency with a long tool life.

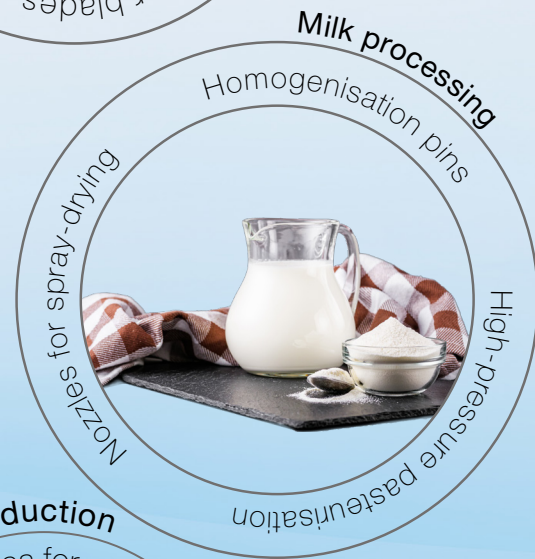
The grades listed below have a Declaration of Conformity by the American Drug and Food Administration (FDA) under Threshold Regulation number 2021-003.

Grade recommendation									
		pH > 2		pH > 3		pH > 4		pH > 7	
Grade		MB06Ni	GB25Ni	MB05	MB20EDM	HB10F	MB10EDM	GB30	GB35
Chemical composition percentage of weight	WC	94,0	90,0	94,12	87,0	94,0	89,0	balance	balance
	Others	-	-	balance alloyed binder	balance alloyed binder	-	balance alloyed binder	<0,20	<0,20
	Co	6,0 Ni	10,0 Ni			6,0		15,0	15,0
Density ISO 3369 g/cm <sup>3</sup>		14,85	14,50	14,95	14,15	14,85	14,40	14,00	14,00
Hardness HV30 ISO 3878		1700	1350	1950	1350	1825	1600	1100	1025
Compressive strenght ISO 4506 N/mm <sup>2</sup>		6000	4600	6000	4900	6000	5500	4400	4300
Transverse rupture strength ISO 3327 N/mm <sup>2</sup>		2500	2500	2500	2900	3400	3600	3000	2900
Fracture toughness MNm <sup>-3/2</sup>		8,8	10,5	8,4	13,8	9,2	10,7	21,0	22,0
Young's modulus ISO 3312 kN/mm <sup>2</sup>		600	580	640	585	630	580	550	550
Mean thermal expansion coefficient 10 <sup>-6</sup> /K		5,4	5,4	5,0	5,5	5,0	5,5	6,0	6,0



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These examples of applications  
are just a small selection of the  
Boehlerit range.

For your special application, we have an  
extensive grade portfolio as well as many  
manufacturing options at our disposal, from  
blanks to ready-to-use tools or  
steel/carbide composites.

The selected grades stand out for their  
high compressive strength, resistance  
against fruit acids etc. as well as wear  
resistance against abrasive raw materials  
and food products.

Add to this Boehlerit's wide ranging  
expertise in your application scenarios and  
you will see why you are in the very best  
hands with Boehlerit!