

## List of available test samples.

For metal detectors and X-ray detectors.

With certificate of conformity.

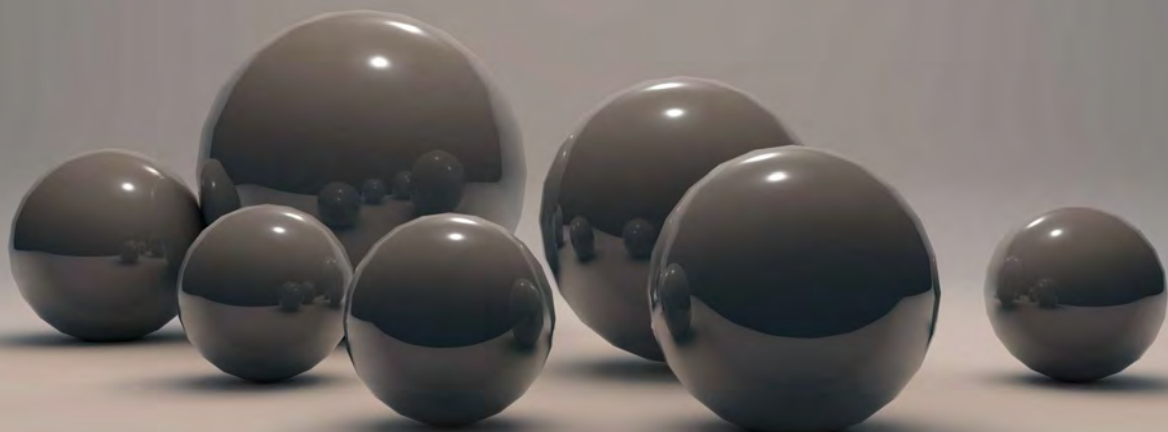


### List of available test samples

On the following pages you will find all available test samples that can be embedded in our test pieces for metal detectors and X-ray detectors. Both balls and wires made of different materials are available to choose from.

All samples are manufactured according to international manufacturing standards (ISO 3290 International / DIN 5401 – 11.1993 / AFBMA 10.1989). The properties are documented with a manufacturer's certificate and linked to a calibration number CERT (batch number).

With the delivery of test pieces or samples, you will receive certificates according to DIN EN 10204 (2005) / declarations of compliance according to 2.1.



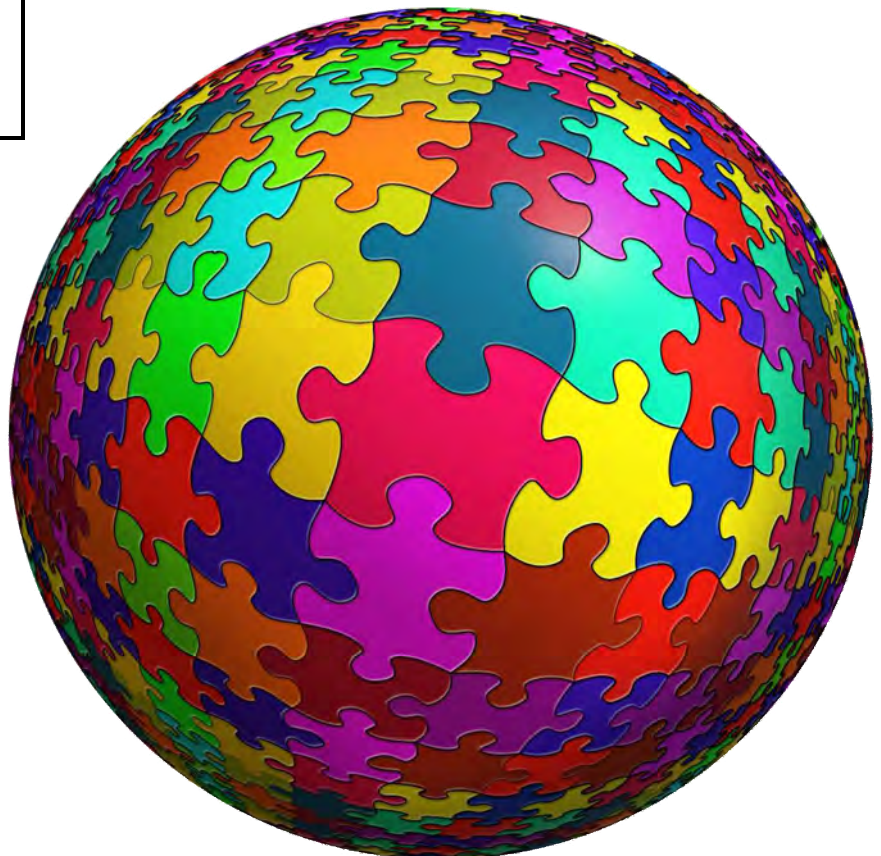
Ferrous 1.3505 AISI 52100	Non-Ferrous Brass CuZn35	Copper Cu		Phosphor bronze PB 104	Aluminium Al	Titanium Ti
Density (typical): 7,833 g/cm <sup>3</sup>	Density (typical): 8,415 g/cm <sup>3</sup>	Density (typical): 8,96 g/cm <sup>3</sup>		Density (typical): 8,4 g/cm <sup>3</sup>	Density (typical): 2,81 g/cm <sup>3</sup>	Density (typical): 4,43 g/cm <sup>3</sup>
Sphere	Sphere	Sphere	Wire	Sphere	Sphere	Sphere
Ø 0.25 mm	Ø 0.3 mm	Ø 0.3 mm	Ø 0.2 x 2 mm	Ø 1.5 mm	Ø 0.8 mm	Ø 1.5 mm
Ø 0.3 mm	Ø 0.35 mm	Ø 0.5 mm	Ø 0.31 x 2 mm	Ø 1.6 mm	Ø 1.0 mm	Ø 2.5 mm
Ø 0.4 mm	Ø 0.4 mm	Ø 1.0 mm	Ø 0.4 x 2 mm	Ø 2.0 mm	Ø 1.1 mm	Ø 3.0 mm
Ø 0.5 mm	Ø 0.5 mm	Ø 1.2 mm	Ø 0.5 x 2 mm	Ø 2.5 mm	Ø 1.2 mm	
Ø 0.6 mm	Ø 0.6 mm	Ø 1.5 mm	Ø 0.63 x 2 mm	Ø 3.0 mm	Ø 1.3 mm	
Ø 0.7 mm	Ø 0.7 mm	Ø 2.0 mm	Ø 0.71 x 2 mm	Ø 4.0 mm	Ø 1.4 mm	
Ø 0.8 mm	Ø 0.8 mm		Ø 0.8 x 2 mm		Ø 1.5 mm	
Ø 0.9 mm	Ø 0.9 mm		Ø 0.9 x 2 mm		Ø 1.588 mm	
Ø 1.0 mm	Ø 1.0 mm		Ø 1.0 x 2 mm		Ø 1.6 mm	
Ø 1.1 mm	Ø 1.1 mm		Ø 0.2 x 5 mm		Ø 1.7 mm	
Ø 1.2 mm	Ø 1.2 mm		Ø 0.31 x 5 mm		Ø 1.8 mm	
Ø 1.3 mm	Ø 1.3 mm		Ø 0.4 x 5 mm		Ø 1.9 mm	
Ø 1.4 mm	Ø 1.4 mm		Ø 0.5 x 5 mm		Ø 2.0 mm	
Ø 1.5 mm	Ø 1.5 mm		Ø 0.63 x 5 mm		Ø 2.5 mm	
Ø 1.588 mm	Ø 1.6 mm		Ø 0.71 x 5 mm		Ø 3.0 mm	
Ø 1.6 mm	Ø 1.7 mm		Ø 0.8 x 5 mm		Ø 3.175 mm	
Ø 1.7 mm	Ø 1.75 mm		Ø 0.9 x 5 mm		Ø 3.5 mm	
Ø 1.75 mm	Ø 1.8 mm		Ø 1.0 x 5 mm		Ø 4.0 mm	
Ø 1.8 mm	Ø 1.9 mm		Ø 0.2 x 10 mm		Ø 4.5 mm	
Ø 1.9 mm	Ø 2.0 mm		Ø 0.31 x 10 mm		Ø 5.0 mm	
Ø 2.0 mm	Ø 2.2 mm		Ø 0.4 x 10 mm		Ø 5.5 mm	
Ø 2.2 mm	Ø 2.3 mm		Ø 0.5 x 10 mm		Ø 6.0 mm	
Ø 2.3 mm	Ø 2.381 mm		Ø 0.63 x 10 mm		Ø 6.35 mm	
Ø 2.4 mm	Ø 2.4 mm		Ø 0.71 x 10 mm		Ø 7.0 mm	
Ø 2.5 mm	Ø 2.5 mm		Ø 0.8 x 10 mm		Ø 8.0 mm	
Ø 2.7 mm	Ø 2.7 mm		Ø 0.9 x 10 mm		Ø 10.4 mm	
Ø 2.77 mm	Ø 2.8 mm		Ø 1.0 x 10 mm			
Ø 2.8 mm	Ø 3.0 mm		Ø 0.2 x 20 mm			
Ø 3.0 mm	Ø 3.175 mm		Ø 0.31 x 20 mm			
Ø 3.2 mm	Ø 3.2 mm		Ø 0.4 x 20 mm			
Ø 3.25 mm	Ø 3.5 mm		Ø 0.5 x 20 mm			
Ø 3.5 mm	Ø 3.8 mm		Ø 0.63 x 20 mm			
Ø 3.8 mm	Ø 4.0 mm		Ø 0.71 x 20 mm			
Ø 4.0 mm	Ø 4.5 mm		Ø 0.8 x 20 mm			
Ø 4.5 mm	Ø 5.0 mm		Ø 0.9 x 20 mm			
Ø 5.0 mm	Ø 5.5 mm		Ø 1.0 x 20 mm			
Ø 5.5 mm	Ø 6.0 mm					
Ø 6.0 mm	Ø 6.35 mm					
Ø 6.35 mm	Ø 6.5 mm					
Ø 6.5 mm	Ø 7.0 mm					
Ø 7.0 mm	Ø 7.5 mm					
Ø 7.5 mm	Ø 8.0 mm					
Ø 8.0 mm	Ø 8.5 mm					
Ø 8.5 mm	Ø 9.0 mm					
Ø 9.0 mm	Ø 9.525 mm					
Ø 9.5 mm	Ø 10.0 mm					
Ø 10.0 mm	Ø 11.11 mm					
Ø 10.5 mm	Ø 12.0 mm					
Ø 11.0 mm	Ø 12.7 mm					
Ø 12.0 mm	Ø 14.0 mm					
Ø 13.0 mm	Ø 15.0 mm					
Ø 14.0 mm	Ø 15.875 mm					
Ø 15.0 mm	Ø 18.0 mm					
Ø 17.0 mm	Ø 20.0 mm					
Ø 20.0 mm	Ø 25.4 mm					
Ø 25.0 mm						



# TEST SAMPLES



Stainless steel 1.4401 AISI 316		Stainless steel 1.4301 AISI 304		Stainless steel 1.4125 AISI 440C	Stainless steel 1.4034 AISI 420C	Lead Pb
Density (typical): 8,027 g/cm <sup>3</sup>		Density (typical): 7,916 g/cm <sup>3</sup>		Density (typical): 7,75 g/cm <sup>3</sup>	Density (typical): 7,75 g/cm <sup>3</sup>	Density (typical): 11,3 g/cm <sup>3</sup>
Sphere	Wire	Sphere	Wire	Sphere	Sphere	Sphere
Ø 0.3 mm	Ø 0.2 x 2 mm	Ø 0.5 mm	Ø 0.4 x 2 mm	Ø 0.5 mm	Ø 1.5 mm Ø 3.0 mm	Ø 1.0 mm
Ø 0.35 mm	Ø 0.31 x 2 mm	Ø 0.6 mm	Ø 0.5 x 2 mm	Ø 1.0 mm		Ø 2.0 mm
Ø 0.4 mm	Ø 0.4 x 2 mm	Ø 0.8 mm	Ø 0.6 x 2 mm	Ø 1.5 mm	Ø 10.0 mm	Ø 3.1 mm
Ø 0.5 mm	Ø 0.5 x 2 mm	Ø 1.0 mm	Ø 0.71 x 2 mm	Ø 2.0 mm		
Ø 0.6 mm	Ø 0.63 x 2 mm	Ø 1.2 mm	Ø 0.9 x 2 mm	Ø 2.5 mm		
Ø 0.7 mm	Ø 0.71 x 2 mm	Ø 1.3 mm	Ø 1.0 x 2 mm	Ø 3.0 mm		
Ø 0.8 mm	Ø 0.8 x 2 mm	Ø 1.5 mm	Ø 0.4 x 5 mm	Ø 3.5 mm		
Ø 0.9 mm	Ø 0.9 x 2 mm	Ø 1.588 mm	Ø 0.5 x 5 mm	Ø 4.0 mm		
Ø 1.0 mm	Ø 1.0 x 2 mm	Ø 1.8 mm	Ø 0.6 x 5 mm	Ø 4.5 mm		
Ø 1.1 mm	Ø 0.2 x 5 mm	Ø 2.0 mm	Ø 0.71 x 5 mm	Ø 5.0 mm		
Ø 1.2 mm	Ø 0.31 x 5 mm	Ø 2.5 mm	Ø 0.9 x 5 mm	Ø 6.0 mm		
Ø 1.3 mm	Ø 0.4 x 5 mm	Ø 2.8 mm	Ø 1.0 x 5 mm	Ø 8.0 mm		
Ø 1.4 mm	Ø 0.5 x 5 mm	Ø 3.0 mm	Ø 0.4 x 10 mm	Ø 8.5 mm		
Ø 1.5 mm	Ø 0.63 x 5 mm	Ø 3.5 mm	Ø 0.5 x 10 mm	Ø 10.0 mm		
Ø 1.6 mm	Ø 0.71 x 5 mm	Ø 4.0 mm	Ø 0.6 x 10 mm			
Ø 1.8 mm	Ø 0.8 x 5 mm	Ø 4.5 mm	Ø 0.71 x 10 mm			
Ø 1.9 mm	Ø 0.9 x 5 mm	Ø 5.0 mm	Ø 0.9 x 10 mm			
Ø 2.0 mm	Ø 1.0 x 5 mm	Ø 5.5 mm	Ø 1.0 x 10 mm			
Ø 2.2 mm	Ø 0.2 x 10 mm	Ø 6.0 mm	Ø 0.4 x 20 mm			
Ø 2.3 mm	Ø 0.31 x 10 mm	Ø 6.5 mm	Ø 0.5 x 20 mm			
Ø 2.4 mm	Ø 0.4 x 10 mm	Ø 7.0 mm	Ø 0.6 x 20 mm			
Ø 2.5 mm	Ø 0.5 x 10 mm	Ø 7.5 mm	Ø 0.71 x 20 mm			
Ø 2.8 mm	Ø 0.63 x 10 mm	Ø 8.0 mm	Ø 0.9 x 20 mm			
Ø 3.0 mm	Ø 0.71 x 10 mm	Ø 8.5 mm	Ø 1.0 x 20 mm			
Ø 3.2 mm	Ø 0.8 x 10 mm	Ø 9.0 mm				
Ø 3.5 mm	Ø 0.9 x 10 mm	Ø 9.5 mm				
Ø 4.0 mm	Ø 1.0 x 10 mm	Ø 10.0 mm				
Ø 4.5 mm	Ø 0.2 x 20 mm	Ø 10.319 mm				
Ø 4.77 mm	Ø 0.31 x 20 mm	Ø 11.0 mm				
Ø 5.0 mm	Ø 0.4 x 20 mm	Ø 12.0 mm				
Ø 5.5 mm	Ø 0.5 x 20 mm	Ø 15.0 mm				
Ø 6.0 mm	Ø 0.63 x 20 mm	Ø 20.0 mm				
Ø 6.35 mm	Ø 0.71 x 20 mm					
Ø 6.5 mm	Ø 0.8 x 20 mm					
Ø 7.0 mm	Ø 0.9 x 20 mm					
Ø 7.5 mm	Ø 1.0 x 20 mm					
Ø 7.94 mm						
Ø 8.0 mm						
Ø 8.5 mm						
Ø 9.0 mm						
Ø 9.5 mm						
Ø 10.0 mm						
Ø 11.0 mm						
Ø 12.0 mm						
Ø 13.0 mm						
Ø 14.0 mm						
Ø 15.0 mm						
Ø 16.0 mm						
Ø 20.0 mm						
Ø 25.0 mm						
Ø 30.0 mm						



Soda-lime glass (SLG)	Fused quartz (Fused silica)	Crystal glass	Borosilicate glass	Zirconia (Fianit)
Density (typical): 2,58 g/cm <sup>3</sup>	Density (typical): 2,2 g/cm <sup>3</sup>	Density (typical): 3,2 g/cm <sup>3</sup>	Density (typical): 2,23 g/cm <sup>3</sup>	Density (typical): 6,05 g/cm <sup>3</sup>
Sphere	Sphere	Sphere	Sphere	Sphere
Ø 0.8 mm Ø 1.0 mm Ø 1.2 mm Ø 1.5 mm Ø 1.8 mm Ø 2.0 mm Ø 2.5 mm Ø 3.0 mm Ø 3.5 mm Ø 4.0 mm Ø 4.5 mm Ø 5.0 mm Ø 6.0 mm Ø 6.35 mm Ø 7.0 mm Ø 8.0 mm Ø 10.0 mm Ø 12.0 mm Ø 14.0 mm	Ø 1.0 mm Ø 2.0 mm Ø 3.0 mm Ø 4.0 mm Ø 5.0 mm Ø 6.0 mm Ø 7.0 mm	Ø 2.0 mm Ø 3.0 mm Ø 3.5 mm Ø 4.0 mm Ø 4.5 mm Ø 5.0 mm Ø 6.0 mm Ø 8.0 mm	Ø 1.0 mm Ø 2.0 mm Ø 3.0 mm Ø 4.0 mm Ø 5.0 mm Ø 6.0 mm	Ø 1.0 mm Ø 1.5 mm Ø 2.0 mm Ø 2.5 mm Ø 3.0 mm Ø 4.0 mm Ø 5.0 mm Ø 6.0 mm Ø 7.0 mm Ø 7.94 mm Ø 10.0 mm

Ceramic (Al <sub>2</sub> O <sub>3</sub> )	PTFE (Teflon®)	PA (Polyamide, Nylon)	POM (Acetal)	AB (Nitrile rubber)
Density (typical): 3,94 g/cm <sup>3</sup>	Density (typical): 2,1... 2,3 g/cm <sup>3</sup>	Density (typical): 1,13 ... 1,15 g/cm <sup>3</sup>	Density (typical): 1,41 g/cm <sup>3</sup>	Density (typical): 1,36 g/cm <sup>3</sup>
Sphere	Sphere	Sphere	Sphere	Sphere
Ø 1.0 mm Ø 1.5 mm Ø 2.0 mm Ø 2.5 mm Ø 3.0 mm Ø 3.5 mm Ø 4.0 mm Ø 4.5 mm Ø 5.0 mm Ø 5.56 mm Ø 6.0 mm Ø 6.35 mm Ø 7.0 mm Ø 7.5 mm Ø 8.0 mm Ø 8.5 mm Ø 9.0 mm Ø 10.0 mm Ø 12.0 mm	Ø 1.588 mm Ø 2.0 mm Ø 2.5 mm Ø 3.0 mm Ø 3.18 mm Ø 4.0 mm Ø 4.672 mm Ø 5.0 mm Ø 5.556 mm Ø 6.0 mm Ø 7.0 mm Ø 8.0 mm Ø 9.525 mm Ø 10.0 mm Ø 12.0 mm	Ø 2.0 mm Ø 3.0 mm Ø 4.0 mm Ø 5.0 mm Ø 6.0 mm	Ø 1.0 mm Ø 2.0 mm Ø 3.0 mm Ø 4.0 mm Ø 5.0 mm Ø 6.0 mm Ø 7.0 mm Ø 8.0 mm Ø 10.0 mm Ø 12.0 mm	Ø 2.381 mm Ø 3.175 mm Ø 3.969 mm Ø 4.762 mm Ø 6.35 mm Ø 7.94 mm Ø 9.525 mm Ø 12.7 mm



EmWeA Prozessmesstechnik e.K.  
Günzerode Am Hagen 3  
99735 Werther  
Germany

*Any question?* →

Phone: +49 36335 3800-0  
Telefax: +49 36335 3800-10  
info@emwea.de  
www.emwea.de

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