



Metcar® Grades Approved for Food and Pharmaceutical Applications

Carbon-graphite materials have been successfully employed by the food, pharmaceutical and beverage industries for many years. The Food and Drug Administration has ruled that impervious carbon-graphite articles are considered GRAS (generally recognized as safe) for use in food handling equipment. This ruling includes Metcar resin, carbon, copper, bronze and nickel chrome impregnated carbon-graphite grades.

In addition, METCAR® grades M-101, M-106, M-312, M-400 and M-702 have passed the stringent tests required to receive a United States Pharmacopoeia Class 6 approval. This approval is required for materials employed as drug containers and prosthetic devices such as heart valves, dental implants, or implant tubing. Also, METCAR® grade M-133 has been officially listed under the NSF-51 Standard for Food Equipment Materials and has gained WRAS (Water Regulation Advisory Scheme) approval in the UK. The NSF-51 standard contains the requirements for all materials used in the manufacture of commercial food equipment and WRAS-approval means the product is of suitable quality and standards to avoid water contamination and minimize waste, when installed properly.

The following METCAR® grades are suitable for use in food processing equipment:

CG + Resin	CG + Carbon	CG + Copper*	CG + Bronze*	CG + Nickel Chrome	G + Oxidation Inhibitor
M-98	M-110	M-199	M-270	M-309	M-45
M-99	M-125	M-200	M-271	M-310	M-58
M-100	M-130	M-201	M-272	M-311	
M-101 ¹	M-131	M-202	M-273	M-312 ¹	
M-105	M-133 ^{2,3}	M-205	1126		
M-106 ¹	M-134	M-207			
M-108	M-146	1515			
M-400 ¹					
M-702 ¹					
M-722					



1 – USP Class VI

2 – NSF 51

3 – WRAS-Approved

* Copper and bronze impregnated grades are not accepted for use in food with a pH below 6 (such as vinegar, fruit juice, or wine)

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