

# umicore

# PALLUNA<sup>®</sup> Palladium Solution 460 Tetraammine palladium(II) chloride solution ([Pd(NH<sub>3</sub>)<sub>4</sub>]Cl<sub>2</sub>)



#### PALLUNA<sup>®</sup> Palladium Solution 460

The palladium complex PALLUNA® Palladium Solution 460 is used in palladium and palladium-nickel electrolytes - for both decorative and technical applications. In addition, the palladium solution is used in the PCB industry in electroless palladium processes.

#### PALLUNA® Palladium Solution 460 HP

The HP version is particularly suitable for palladium and palladium-nickel electrolytes with special requirements regarding impurities and pH value. This version can also be used for decorative and technical applications.

Characteristics			
	460	460 HP	
Color	yellow	yellow	
Density (g/cm³)	1.12	1.13	
pH value	11.0	9.0	
Palladium (g/l)	100.0	100.0	

## PALLUNA<sup>®</sup> Palladium Solution 460 Tetraammine palladium(II) chloride solution ([Pd(NH<sub>3</sub>)<sub>4</sub>]Cl<sub>2</sub>)

### **TECHNICAL SPECIFICATIONS**

Impurities		
	460	460 HP
Ag	< 50.0 µg/g	< 5.0 µg/g
Al	-	< 5.0 µg/g
Au	< 50.0 µg/g	< 5.0 µg/g
В	-	< 2.0 µg/g
Са	< 5.0 µg/g	< 5.0 µg/g
Cd	-	< 2.0 µg/g
Со	< 1.0 µg/g	< 1.0 µg/g
Cr	< 1.0 µg/g	< 1.0 µg/g
Cu	< 25.0 µg/g	< 1.0 µg/g
Fe	< 25.0 µg/g	< 1.0 µg/g
n	-	< 2.0 µg/g
Ir	< 5.0 µg/g	< 5.0 µg/g
K	-	< 5.0 µg/g
Mg	< 1.0 µg/g	< 1.0 µg/g
Mn	-	< 2.0 µg/g

Impurities				
	460	460 HP		
Мо	-	< 2.0 µg/g		
Na	-	< 15.0 µg/g		
Ni	< 1.0 µg/g	< 1.0 µg/g		
Pb	< 25.0 µg/g	< 1.0 µg/g		
Pt	< 50.0 µg/g	< 10.0 µg/g		
Rh	< 50.0 µg/g	< 10.0 µg/g		
Ru	< 5.0 µg/g	< 5.0 µg/g		
Sb	-	< 2.0 µg/g		
Si	< 50.0 µg/g	< 20 µg/g		
Sn	-	< 10 µg/g		
Ti	-	< 20 µg/g		
W	-	< 5.0 µg/g		
Zn	-	< 20 µg/g		
Zr	-	< 20 µg/g		

### YOUR CONTACT

Do you have a specific question or would you like a no-obligation quote calculation? Our specialist will be happy to help you with any technical questions you might have.



Markus Legeler Manager Sales International

 Mail:
 markus.legeler@eu.umicore.com

 Phone:
 +49 (0) 7171 607 - 204



The information and statements contained herein are based on our experience in the fields of research and applied technology and are believed to be accurate at the time of publication, but - unless agreed in writing - we make no warranty with respect thereto, including but not limited to any results to be obtained. This product information sheet in the English language prevails any translation.

mds.umicore.com