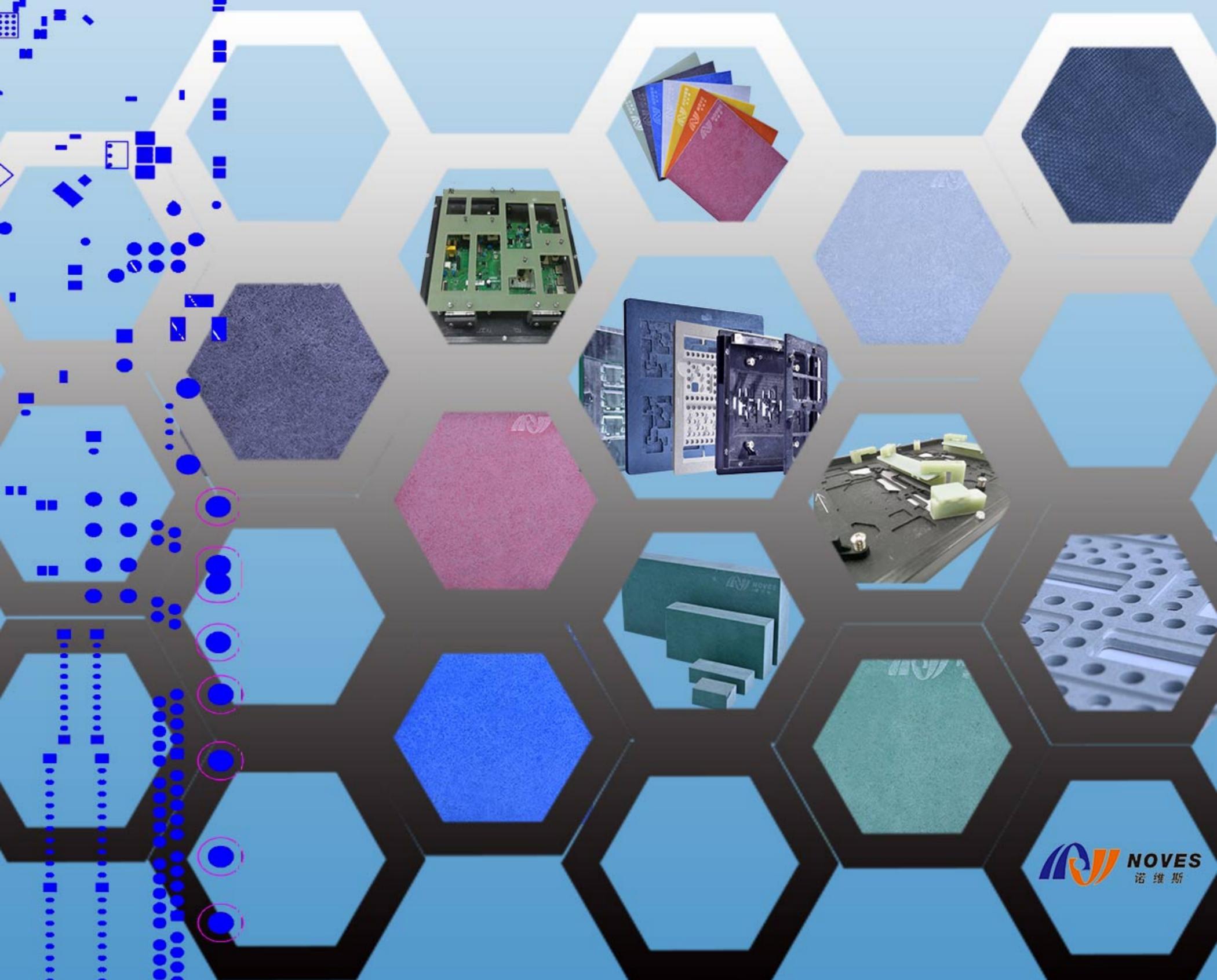


Noves Material for PCB solder pallet

High performance composite material

Specifically designed for the

PCB soldering assembly process



PCB Solder Pallet Material

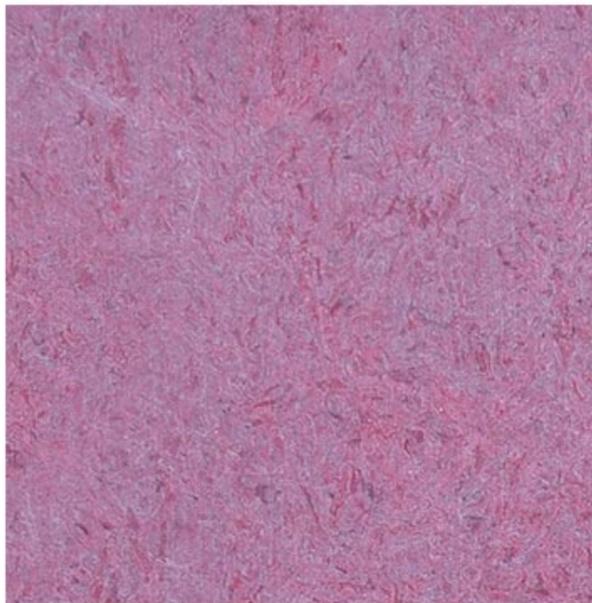
NS301

Item NS301 is a new material developed base on feedback for many Client that during the machining.

- Easy for machining for the PCB solder pallet process.



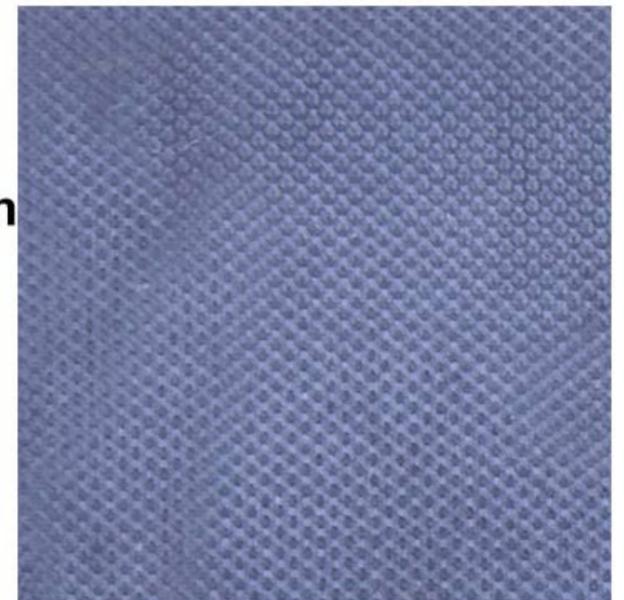
NS308



Item NS308 It is a very good material fro the flux corrosive process , It can withstand themperatures up to 360°C. The decision to use NS308 over one of the standad grades is made when the solder both temperature exccdes 280°C and the bottom side PCB pre-heat exceeds 140°C

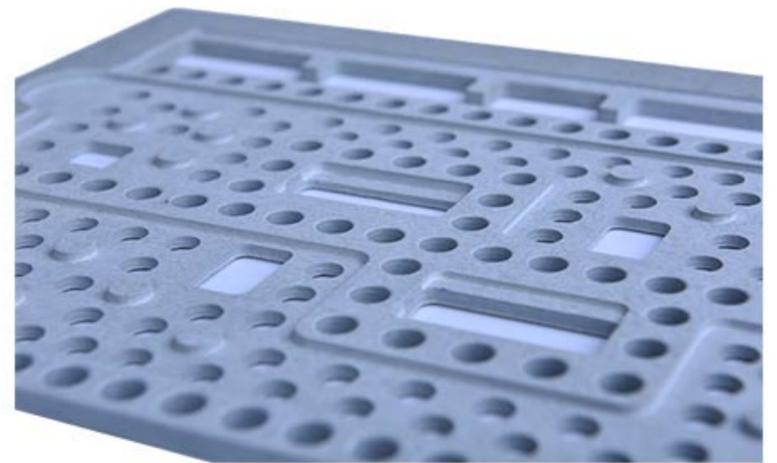
According to the internal tests, our NS503 shows the smallest weight decrement then the other material, And in flux chemicals and washing solution under high temperature. NS503 is the best choice especially for the high performance and expensive universal soldering pallets because of the extremley long durability of the materia

NS503



PCB Solder Pallet Material

Noves material have been developed for wave solder pallet and all procedures within the PCB wave soldering assembly process, There are different color of our item NS302 as below image, The Maximum operating temperature is more than 360°C and the standard operating temperature is 260°C. It is hardening resistant in soldering process without delamination

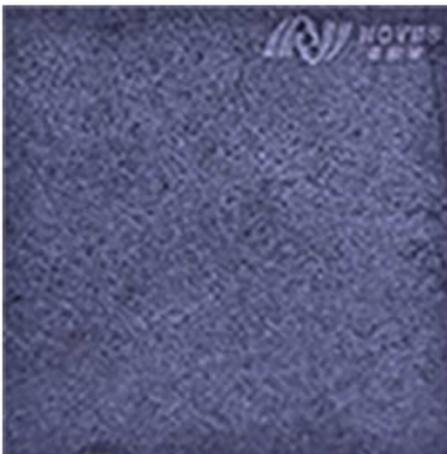


These material offer the following features:

- Excellent chemical, resistance, High protection on chemical attack erosion
- Good resistance to chemicals used in modern fluxes
- Excellent mechanical strength for fine machining
- Low thermal conductivity during process



NS302-Black



NS302-Gray



NS302-Blue



NS302-Green



Technical Data:		NS-301	NS-302	NS-308	NS-503 lead free
Number	Test Item	Anti-Static	Anti-Static	Flux Resistant	Flux Resistant
1	Colour	Black	Black, Gray Blue, Green	Red	Black
2	Density(g/cm ³)	1.9	1.9	1.9	1.93
3	Flexural Strength @ 23 °C (MPa)	360	360	360	360
4	Flexural Strength @ 150 °C (MPa)	180	180	200	260
5	Flexural Strength @ 180 °C (MPa)	110	120	130	150
6	Modulus of Elasticity @ 23 °C (MPa)	18000	18000	18000	18000
7	Modulus of Elasticity @ 150 (MPa)	8000	9000	12000	14000
8	Modulus of Elasticity @180 °C (MPa)	-	-	10000	10000
9	Water Absorption(%)	<0.20	<0.20	<0.20	<0.20
10	Coefficient of Linear Expansion(10 ⁻⁶ /K) between 30 °C and 200 °C	13	12	11	11
11	Thermal Conductivity (W/m ⁰ K)	0.57	0.57	0.57	0.53
12	Maximum Operating Temperature (°C) 10-20 seconds	300	350	380	380
13	Standard operating temperature (°C)	260	280	300	300
14	Surface resistance (ohms) (Ω)	10 ⁵ -10 ⁹			
15	Chemical Resistance	good	Great	Excellent	Excellent
16	Standard Sheet Size mm)	1160 x 1260 , 1220x2440mm			
17	Standard Thickness (mm)	3,4,5,6,8,10,12,14,15,20			
18	Thickness tolerance (mm)	0.10			
19	Flatness Tolerance (mm)	0.15			
20	Parallelism (mm)	0.10			

- All the values are average values

- Cosmetic defects are not considered as non-conformities.

-Due to the nature of the glass fiber and the resin composite material. The colour repartition is not guaranteed

-The final explanation rights belong to NOVES ELECTRONICS CO. LTD

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