



GLASS BEADS

BLAST & PEEN SERVICES PTE LTD
11 Tuas South Link 1
#03-18 SHINE@TUAS SOUTH | Singapore 636901

Office Phone
+65 8811 1883

Handphone
+65 9850 0121

Email Address
sales@bnp.com.sg

Website
www.bnp.com.sg



i DESCRIPTION

Glass Beads are a spherical abrasive manufactured from chemically inert soda lime glass. Glass Beads are used for cleaning, finishing, light peening, deburring, sanitizing, descaling, coating removal, polishing and surface blending.

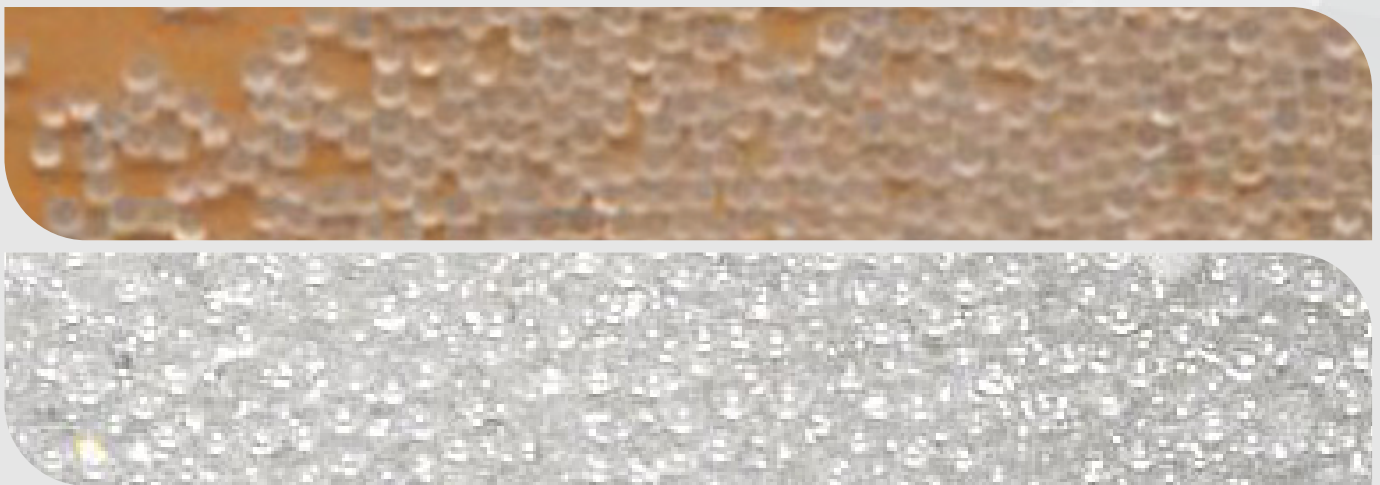
Glass Beads produce a bright satin finish; finer beads produce a smoother non glare finish, while larger beads produce a deeper textured finish. Blasting with Glass Beads does not produce any dimension changes to the part base surface.

APPLICATION

Cleaning, surface finishing and sanitizing of metallic parts, especially effective on stainless steel, ie food processing equipment, medical instruments.

Shot peening of aircraft engine blades, turbine rotors, gears, blisks, shafts, steam and gas turbine components. Stress corrosion cracking prevention.

Deburring and surface blending of gears, turbocharger parts, ferrous and non ferrous fabrications, aluminium die castings and machined parts.



Size in Details

Bead No.	B / 3	C / 4	AA / 5	D / 6	AB / 7	AC / 8
Size in inch	.0165 - .0234	.0098 - .0165	.0083 - .0165	.0083 - .0117	.0070 - .0117	.0059 - .0098
Size in μm	850 - 600	250 - 425	212 - 425	212 - 300	180 - 300	150 - 250
% round	60	75	70	75	70	80

Bead No.	AD / 9	AE / 10	AG / 11	AH / 12	AI / 13	INDA
Size in inch	.0041 - .0083	.0035 - .0059	.0021 - .0041	.0017 - .0035	.0000 - .0021	.0098 - .0165
Size in μm	106 - 212	90 - 150	53 - 106	45 - 90	0 - 53 25	0 - 425
% round	80	85	85	85	85	85

Physical Properties

Hardness	Specific Gravity	Bulk Density	Shape	Free Silica	Free Iron	Colour
6 - 7 Mohs	2.45 - 2.50 g/cm ³	≈1500kg/m ³	Spherical	NIL	< 1%	Clear

Typical Chemical Composition

SO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	CaO	Na ₂ O	Others
≥ 70%	0.5 - 2%	≤ 0.15%	≥ 2.5%	≥ 8%	≥ 14%	≤ 2%