

Surface Finishing Handbook

Glass Bead Peening

POTTERS IS A WORLD LEADER, WITH OVER 100 YEARS OF EXPERIENCE IN MANUFACTURING GLASS BEADS.

Definition

Peening is the process of changing the shape of the crystalline structure of the metal by inducing compressive residual stresses. This in turn extends the life of the components or parts

Benefits

- Prevent fatigue failure
- Prevent stress-corrosion cracking
- Reduce crack propagation
- Increase fatigue life

Questions to Ask

- What is your build specification?
- What is the intensity requirement?

Example Answers

 i.e. SAE, AGB, Mil Spec
i.e. Intensity Conversion→ N=3A, A=N/3

Other Considerations

What blasting pressure is used?

What sized bead is used?



POTTERS ENVIRONMENTAL COMMITMENT

Potters respects the environment by the recycling of over one billion pounds of glass each year. Potters works closely with regulatory agencies and responsible customers around the world to ensure that we provide glass beads that don't harm employees, contaminate water supplies or land around roadways. We have set our own strict standards and voluntarily perform XRF analysis and other quality control procedures on incoming raw materials to ensure our glass beads are safe and meet heavy metals limitations.

		SATUR	RATION ARC	HEIGHT INT	ENSITY (μm)	1	
	GRADE	AGB-70	AGB-50	AGB-25	AGB-20	AGB-15	AGB-10
	STRIP	Α			N		
LSI)	20	11.3	8.3	4.0	3.4	9.5	4.0
PRESSURE (PSI)	30	14.2	10.3	5.2	4.4	11.2	5.2
ESSI	40	17.5	12.2	6.0	4.8	12.0	6.0
R.	50	19.7	13.6	6.5	5.2	13.0	6.8
	60	22.5	14.7	7.2	5.8	14.0	7.6
	80	27.3	17.0	8.4	7.0	16.4	8.6

INTENSITY RELATED TO POTTERS BEAD DESIGNATION AND DIRECT PRESSURE

CALL 1-800-55-BEADS FOR YOUR NEAREST DISTRIBUTOR

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