NADCA

C-8-1-06

CHECKLIST

This checklist is for use in consultation with your die caster prior to estimating production costs. Use in combination with the Finishing Checklist C-8-2. Also review Checklists T-2-1A and T-2-1B, for Die Casting Die Specification, in Section 2.

No. Cost Effect

Most economical basis for production

Involves additional work which may

Commercial Practices

Casting Production Specifications

To be used in consultation with your caster (Use in combination with Checklist C-8-2)*

Checklist for Die Casting Production Part Purchasing

This Production Checklist provides a convenient method for assuring important factors

involved in purchasing cast parts are evaluated and clearly communicated between the purchaser and the caster.

It should be used as a supplement to the essential dimensional and alloy specifications detailed on part prints submitted for quotation, since the listed factors directly affect the basis on which the casting quotation is made. The checklist may be reproduced

	,	ork which may increase cost irements which may	for this purpose. Your caster will clarify any item requiring further explanation. This checklist provides a numbering system in which the lowest numbered description for each requirement can be met at the lowest production cost, as follows:	
A	Casting Cleanliness	☐ 2 Shop run — blown reason	 2 Shop run — blown reasonable free of chips but not degreased 3 Clean, dry and free of chips 	
В	Cast Surface Finish		h is not significant and chill areas coverable with paint troplating, decorative finishing, O-ring seats	
С	Metal Extension (Flash) Removal Parting Line External Profile		150" (0.38 mm) of die casting surface (See NADCA Guideline G-6-5) lush with die casting's surface	
D	Metal Extension (Flash) Removal Cored Holes	 1 Flash not removed 2 Flash trimmed to within 0. 3 Flash to be machined 	010" (0.25 mm) of die casting surface	
E	Metal Extension (Flash) Removal Ejector Pins	 □ 1 Not removed (See NADCA □ 2 Crushed or flattened (See □ 3 Removed from specific loc 	NADCA Guidelines G-6-4)	
F	Pressure Tightness	 1 No requirement 2 Pressure-tight to agreed-u 3 Other arrangements to be 	pon psi (kPa). Testing medium: a agreed upon	
G	Flatness		pecification tolerances (S-4A-8) NADCA "Precision" specification tolerances (P-4A-8) ments	
н	Dimensions		indard" specification tolerances colerances on specified dimensions, others "Standard" s to be agreed upon	
ı	Customer's Receiving Inspec- tion	2 Statistical quality control:	quirements — no Statistical Quality Control Acceptable at Cpk 1.33 or higher (or AQL over) Acceptable at Cpk 2.0 or higher (or AQL over)	
J	Packaging	 1 Not critical – bulk packed 2 Layer packed, with separe 3 Packed in cell-type separe 4 Customer defined require 	ators, or weight restriction ators or individually wrapped	

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^{*} The specification provisions and procedures listed in Section 7, "Quality Assurance," should also be addressed.

Commercial Practices

NADCA

C-8-2-06

CHECKLIST

Casting Surface Finishing Specifications

To be used in consultation with your caster (Use in combination with Checklist C-8-1)*

Checklist for Finished Die Casting Part Purchasing

This Finishing Checklist provides a convenient method for assuring that important factors involved in the surface finishing of cast parts are evaluated and

clearly communicated between the purchaser and the caster. It should be used as a supplement to the essential dimensional

and alloy specifications detailed on part prints submitted for quotation, since the listed factors directly affect the basis on which the

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Also review Checklists				
T-2-1A and T-2-1B, for Die				
Casting Die Specification, ir				
Section 2				

No. Cost Effect

☐ 1 Most economical basis for production

purp Th num	ose. Your caster wil is checklist provide	l cla s a r or ea	ne checklist may be reproduced for this rify any item requiring explanation. Sumbering system in which the lowest ch requirement can be met at the llows: 2 Involves additional work which may affect cost 3-4 Additional work which may increase cost 5 Most difficult surface to cast on a production basis
K	Casting Insert		 No insert used in cast part Inserts required, to be supplied by customer at 10% overage Inserts required, to be supplied by caster
L	Parting Lines		1 Polishing not required2 Polish only where marked on drawing3 Polish all parting lines (except as noted)
M	Surface Preparation		1 No buffing required2 Mechanical (burnishing, tumbling, etc.)3 Buff as indicated on drawing
N	Plating,		1 Protective Only — Specify:
	Anodizing or Other		2 Decorative Paint — Specify:
	Special Finish		3 Severe Exposure Protection — Specify:
	Painting		1 Heavy Paint, Protective Only — Specify:
0			2 Decorative Paint — Specify:
			3 Application requires base coat or special treatment: Specify:
	Environmental		1 Normal interior use only
P			2 Exposure to weather — Specify:
			3 Exposure ot unusual chemistry — Specify:
Q	As-Cast Surface See NADCA Guidelines G-6-6		 Utility Grade – surface imperfections acceptable, nondecorative coatings Functional Grade – slight, removable surface imperfections, heavier coatings Commercial Grade – removable imperfections Consumer Grade – no objectionable imperfections, as agreed upon, when viewed under normal lighting conditions at
			o opposios osado opecised average postace sissas value os sistema lista.

For special flash removal requirements, see Checklist C-8-1, items C & E

For special packaging/weight restrictions, see Checklist C-8-1, item J

inches, per print

Special

Requirements

^{*} The specification provisions and procedures listed in Section 7, "Quality Assurance," should also be addressed.