

C2-A: Control on Usage and Cost

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1 Purpose of "Usage/Cost Control"



<u>Purpose</u>

To understand the usage and purchasing cost of each cost item and improve.

To have control over proper usage of Proportional indirect materials and Non-proportional indirect materials.

2 Rules on Usage

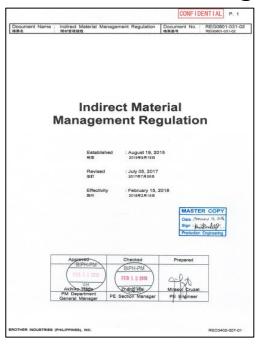


RULES



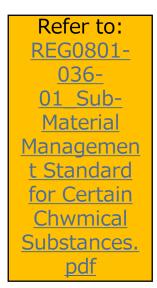
Must have rules on usage of proportional indirect material and non-proportional indirect material.

Does not have to be a procedure, a clear format for recording is fine.









3 Inbound and Outbound Record





Must have an In and Out record of Proportional indirect material and Non-Proportional indirect material.

In and Out of materials are fully recorded without omission.

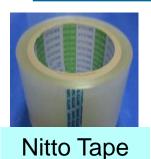
Indirect Materials – materials used in production process except for direct parts, finished goods, and work-inprocess.

Proportional Indirect Materials materials included in the finished goods/product upon ship out. These have fixed usage rate that any changes in production plan will also have direct impact on the total usage.

Other reference:

http://133.151.246.16/technicalstandards/StdProc/Docs/en/ P-PR-003/P-PR-003.pdf

Sample Proportional Indirect Materials





Holding

Solder Wire

Tape



Grease

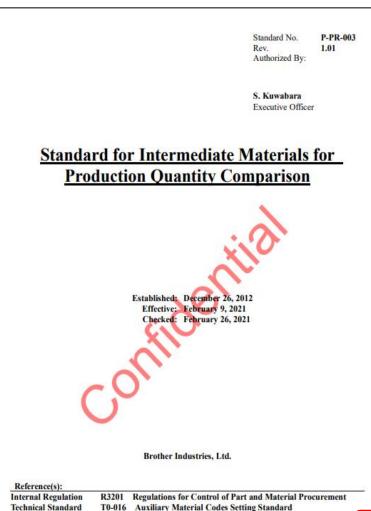


Label

3 Inbound and Outbound Record



For Proportional Indirect Materials, refer to P-PR-003:



Specific Examples of Intermediate Materials for Production Quantity Comparison

| Category | Application | Specific Examples | | | | | |
|----------------------------|-----------------|---|--|--|--|--|--|
| 1. Auxiliary | Lubricant | BGMU, PG661, BG-10KS | | | | | |
| materials | | Hanarl (FZ-85, BDX-313A, etc.) | | | | | |
| | Adhesive | UV adhesive, Super X | | | | | |
| | | Silver pastes for heads, solder bump material | | | | | |
| | Circuit board | Solder, jumper wire | | | | | |
| | assembly | | | | | | |
| | Labeling | Unit barcodes, stickers, serial number labels, case markings (attached to products, units or cartons) | | | | | |
| | Printing | Ink ribbons (including printing on model faceplates for handled parts), | | | | | |
| | | heat stamps, ink cartridges, toner units, pens (if ink will be applied to the product when shipped) | | | | | |
| | Packaging | Scotch tape, holding tape, cellophane tape, PP bands, staples | | | | | |
| 2. Indirect | Products, unit | Printing paper, canvas (for anchoring inspection) | | | | | |
| materials used | inspection | Inspection fluid, toner powder, ink fluid, thermal ribbons, thermal paper, | | | | | |
| for each unit | | checklists | | | | | |
| produced | Labeling | Unit barcode, stickers (for affixing to checklists) | | | | | |
| | Label printing | Ink ribbons, heat stamps, ink cartridges, toner units | | | | | |
| | Tape | Temporary fastening tape, staples | | | | | |
| | Product washing | Alcohol, static remover | | | | | |
| Indirect | Circuit boards | Masking tape | | | | | |
| materials used | Product washing | Kimwipes, MK cloth, cotton swab, dusting sheets, gloves, fingerstall, | | | | | |
| for a | | garbage bags | | | | | |
| predetermined | Documentary | Charts (TC, CTC) | | | | | |
| quantity of | performance | | | | | | |
| units | inspection | | | | | | |
| produced | Packaging | Packaging vinyl, PP rope (PP cord) | | | | | |

Link: http://133.151.246.16/technicalstandards/StdProc/Docs/en/P-PR-003/P-PR-003.pdf

3 Inbound and Outbound Record



Non-Proportional Indirect Materials

- Materials not included in the finished goods/product upon ship out but necessary during production.

Non-Proportional Indirect Materials Sample













#**4**

Must grasp cost of proportional indirect material per unit.

Grasp proportional indirect material cost per unit at least on a 3-month basis.

| | T | | | | | | | | | | T | |
|-------------------------|----------------------|-----------------------|---------------------------------|-------------------------------|-------|--------------|-------------|-------------|-----------|-------------|---------------|--------|
| Item of expenditure | Proportional | Materials division | Materials name | Materials cost / One month | Pur 🕌 | se unit 🕌 | Price (Purc | ase unit) 🍦 | Price (Ba | sic unit) 🕌 | Consumption / | Une |
| Indirect materials - | - type Production | ①sub material | Industrial adhesives TB1530P | one month 911 | 150 | 150x / 1pc | 30,000 | lien | 0.000 | USD/g | 0.132 | - |
| Proportional(2490000) | 1 Production | C/Sub material | industrial adriestives TEL 550F | 311 | 150 | 1506 / 100 | 30000 | loso l | 0.200 | USD/E | 0.132 | 6 |
| r rapartiariai(2450000) | | | | | | | | | | | | |
| Indirect materials - | Production | (Dsub material | Adhesive for electrical | 174 | 333 | 333ml / 1pc | 30.450 | USD | 0.091 | USD/ml | 0.055 | ml |
| Proportional(2490000) | 1 | | components AX- | | | | | | | | | |
| | | | 128 (SX720W#) | | | | | | | | | |
| Indirect materials - | 1 Production | ①sub material | Flux EC-19S-8 | 1 | 1.4 | 1.4kg/1pc | 11.650 | USD | 8.321 | USD/kg | 0.000 | kg |
| Proportional(2490000) | 1 | | | | | | | | | | | |
| Indirect materials - | Production | ①sub material | UV curable resins TB3033B/333ml | 1600 | 333 | 333ml / 1pc | 130,000 | USD | 0.390 | USDml | 0.119 | mi |
| Proportional(2490000) | 1 | | | | | | | | | | | |
| Indirect materials - | Production | ②Proportional | E-Mask 6030 20mm * 200m | 134 | 200 | 200m / 1roll | 12.840 | USD | 0.064 | USD/m | 0.061 | m |
| Proportional(2490000) | 1 | Indirect Material | | | | | | | | | | |
| Indirect materials - | Production | ①sub material | Epoxy adhesive E-90FL | 961 | 400 | 400ml / 1pc | 37,900 | USD | 0.095 | USD/ml | 0.294 | ml |
| Proportional(2490000) | 1 | | | | | | | | | | | |
| Indirect materials - | Production | ②Proportional | SHIPPING LIQUID TC1105 | 1241 | 1 | 5 | 0.030 | USD | 0.030 | USD/g | 1.199 | E |
| Proportional(2490000) | ' | Indirect Material | | | | | | | | | | |
| Indirect materials - | 1 Production | ②Proportional | BK INK LK5305001 | 6 | 1 | <u> </u> | 0.021 | USD | 0.021 | USD/g | 0.00852 | 9 |
| Proportional(2490000) | ' | Indirect Material | | | | | | | | | | |
| Indirect materials - | 1 Production | ②Proportional | C INK LK5306001 | 7 | 1 | 2 | 0.036 | USD | 0.036 | USD/g | 0.00536 | 9 |
| Proportional(2490000) | | Indirect Material | | | | | | | | | | |
| Indirect materials - | 1 Production | ②Proportional | MINK LK5307001 | 8 | 1 | 2 | 0.044 | USD | 0.044 | USD/g | 0.00498 | g |
| Proportional(2490000) | | Indirect Material | | | | | | | | | | |
| Indirect materials - | 1 Production | ②Proportional | YINK LK5308001 | 7 | 1 | | 0.040 | USD | 0.040 | USD/g | 0.0052 | 9 |
| Proportional(2490000) | | Indirect Material | | | | | | | | | | |
| Indirect materials - | 1 Production | ②Proportional | Printer paper 4200 20LB 8.5x11 | 62 | 5000 | 5000sheets / | 45.000 | USD | 0.009 | USD/sheet | 0.2 | sheets |
| Proportional(2490000) | 1 | Indirect Material | | | | 1 certan | | | | | | |

Proportional Materials List Sample

5 Grasp Usage



#3

Grasp usage of Proportional Indirect Material and Non-Proportional Indirect Material.

| NO. ITEM | | ITEM | DETAILS | | Q1 | | Q2 | | | |
|----------|-----|--------------------------------------|-----------------------------|---------|-------------------|---------|--------------------|---------|------------|--|
| | ▼ | T1 E14 | DETAILS . | Apr ▼ | May ▼ | Jun ▼ | Jul 🔻 | Aug ▼ | Sep ▼ | |
| DPP | 4-1 | Indirect materials-Proportional Cost | Actual Output QTY (MH data) | 191,795 | 210,141 | 226,506 | 213,575 | 203,643 | 199,953 | |
| | | Reduction | Estimated Total Cost | 37,250 | 37,099 | 52,959 | 49,058 | 47,334 | 38,809 | |
| | | | Actual Total Cost (FI) | 49,007 | 42,646 | 48,223 | 42,290 | 36,890 | 42,530 | |
| | | | Estimated Unit Cost | 0.1942 | 0.1765 | 0.2338 | 0.2297 | 0.2324 | 0.19409201 | |
| | | | Actual Unit Cost | 0.2555 | 0.2029 | 0.2129 | 0.1980 | 0.1811 | 0.21269863 | |
| | | | Monthly actual (%) | -31.56% | -14.95% | 8.94% | 13.80% | 22.06% | -9.59% | |
| | | | Estimated Unit Cost (cumm) | 0.1942 | ⁰ Inch | ided i | n Department Polic | | | |
| | | | Actual Unit Cost (cumm) | 0.2555 | 0.2200 | JUEU II | Deho | | IL I OIIC | |
| | | | Cumulative actual (%) | -31.56% | -23.27% | -9.87% | -3.29% | 2.08% | 0.35% | |
| | | | | _ | | | | | | |

Grasp that usage of proportional indirect material is appropriate for production increase and decrease.

If not appropriate, must be able to explain the reason for the variance.



6 Activity to Reduce Usage





Conduct activity to reduce usage of Proportional Indirect Material and Non-Proportional Indirect Material.

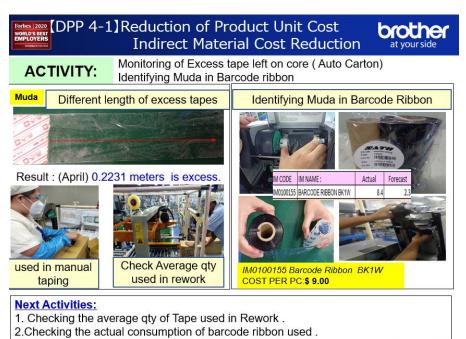
- Reduction activity is carried out.
- Implement to other sections if effective.



Sample Reduction Activity



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