SPRITZER
Froth Systems by Foam Supplies

DAILY Q.C. QUICK REFERENCE GUIDE – RATIO

RATIO: The weight comparison of the output of ISO (A) to the output of POLYOL (B).

Necessary Items:

- 13 gallon or larger plastic bags
- Gram scale
- Metering nozzle

RATIO PROCEDURE:

1. Connect metering nozzle to gun head.
2. Open ISO (A) and POLYOL (B) ball valves at gun whip.
3. Using (2) 13-Gallon plastic bags, place each tip of the metering nozzle into a separate bag.
4. Timing the shot with a stopwatch, dispense 10 seconds of ISO (A) and POLYOL (B) into the separate plastic bags. Make sure that the trigger is fully depressed. Tie the bags closed immediately.
5. Immediately remove the metering nozzle and clean with DK817.
6. Place an empty bag inside the box that is used to weigh the ISO (A) and POLYOL (B) and place on the scale. Zero the scale once this is done and remove the empty bag.
7. Weigh each bag separately and record the weights on the QC sheet.
8. Use the ratio formula (below) to calculate the ratio.
9. If adjustments are necessary, the output of the ISO (A) and POLYOL (B) can be increased or decreased using the nitrogen regulators. **DO NOT EXCEED 240 PSI**

RATIO CALCULATION:

(Gram weight is necessary for accuracy.)

Ratio = ISO (A) : POLYOL (B)

Formula: $\dfrac{\text{ISO (A) Weight} \times 100}{\text{ISO (A) Weight}} : \dfrac{\text{POLYOL (B) Weight} \times 100}{\text{ISO (A) Weight}}$

Example: 10 second shot:

ISO (A) weight = 250 g

POLYOL (B) weight = 225 g

$\dfrac{250g \times 100}{250\ g} : \dfrac{225g \times 100}{250\ g}$

$1 \times 100 : 0.90 \times 100$

100 ISO (A) : 90 POLYOL (B)

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DAILY Q.C. QUICK REFERENCE GUIDE – THROUGHPUT

THROUGHPUT: The number of pounds per minute (PPM) dispensed from the gun. It is the weight of foam from a specific time shot expressed in lbs./min.

Necessary Items:
- 13 gallon or larger plastic bags
- Gram scale

THROUGHPUT PROCEDURE:

1. Attach mix nozzle to Gun Head.

2. Take a 10-second shot into a plastic bag.

3. Wait 5 minutes to allow foam to cure on a warm flat surface for weighing.

4. Weigh the foam dispensed during the 10 second shot on a gram scale.

CALCULATIONS: (Gram weight is necessary for accuracy.)

Formula:

a) $\dfrac{\text{Weight in grams}}{454} = \text{Weight in lbs}$

b) $\dfrac{\text{Weight in lbs} \times 60}{10 \text{ seconds}} = \dfrac{\text{Weight in lbs}}{1 \text{ minute}}$

c) Throughput = Weight in lbs/min

Example: A 10-second shot from a gun unit weighs 454 grams.

a) $\dfrac{454 \text{ g}}{454} = 1 \text{ lbs}$

b) $\dfrac{1 \text{ lbs} \times 60}{10 \text{ sec}} = 6 \text{ lbs/min}$

c) Throughput = 6 lbs/min (.10 lbs/sec)