

WPIM01-NBR 70 COMPOUND



1. INTRODUCTION:

NBR 70 COMPOUND WPIM 01 IS A NITRILE COMPOUND WITH MEDIUM PERCENTAGE OF ACRYLONITRILE STANDARD COMPOUND WITH GOOD COMPRESSION SET VALUES FOR CONTACT WITH HYDRAULIC FLUIDS

2. PRODUCT DESCRIPTION:

CHEMICAL COMPOSITION:	METHYL-VINYL SILICONE RUBBER
PHYSICAL FORM:	O-RINGS, MOULDED PARTS
COLOUR:	BLUE
TEMPERATURE RESISTANCE:	-50°C TO 100°C
APPLICATION:	FOOD CONTACT
STORAGE STABILITY:	7 YEARS

3. COMPLIANCES :

FDA 21 CFR 177.2600
ADI, REACH, ROHS

4. X-RAY DETECTABILITY:

IN LOW CONTRAST
COMPOSITIONS FROM 2MM OF
MATERIAL & IN BOTH LOW &
HIGH CONTRAST COMPOSITIONS
FROM 6MM OF MATERIAL

5. METAL DETECTABILITY:

AT HIGH FREQUENCIES, MULTIPLE
SENSITIVITIES & FACE 90 C FRM
2MM OF MATERIAL & AT
LOW FREQUENCIES FROM 6MM OF
MATERIAL

6. PHYSICAL PROPERTIES:

TEST METHOD	NORM	TEST VALUES
HARDNESS	ISO 48 METHOD M	70 + 5 IRHD
TENSILE STRENGTH AT BREAK	ISO 37	MIN 13 MPA
ELONGATION AT BREAK	ISO 37	MIN 250%
SPECIFIC WEIGHT	ISO 2781	1,25
COMPRESSION SET	ISO 815	
25% COMPRESSION-22H/100 C		
ON SLAB		MAX 12%
ON O-RING (3,53 MM)	ISO 815	MAX 20%
HEAT AGEING 70H/100°C		ISO 188
HARDNESS CHANGE		MAX +6°
VOLUME CHANGE		MAX -2,1%
IMMERSION IN ASTM OIL N° 3	ISO 1817	
HARDNESS CHANGE		MAX -5°
VOLUME CHANGE		MAX +9%
WEIGHT CHANGE		MAX +6%

7. CHEMICAL RESISTANCE:

ALKALAI :	VERY GOOD
AIR :	EXCELLENT
ALCOHOL:	VERY GOOD
FATS :	EXCELLENT
MINERAL OILS:	EXCELLENT
SILICONE OILS:	EXCELLENT
VEGETABLE OILS:	EXCELLENT
INORGANIC ACIDS:	EXCELLENT
KETONES:	UNSATISFACTORY
ETHERS :	UNSATISFACTORY
ORGANIC ACIDS:	FAIR
INORGANIC ACIDS:	EXCELLENT

8. ADVANTAGES:

GOOD COMPRESSION SET
STOCK ITEM FOR CA 12,000 DIMENSIONS
STANDARD O-RING COMPOUND
GOOD BALANCE PRICE/LIFETIME

